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OM nucleic - nucleic search, using SW model

Run on: September 24, 2005, 12:51:21 ; Search time 2359 Seconds
(without alignments)
11045.342 Million cell updates/sec

Title: US-10-021-657-7

Perfect score: 3897
Sequence: 1 GAATTCGAAGCGAGCCCTT.....GCTGAGTAACGACGAAATTC 3897

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7400704 seqs, 3343079526 residues

Total number of hits satisfying chosen parameters: 14801408

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3897	100.0	3897	13	US-10-021-657-7
2	3897	100.0	3897	16	US-10-412-000-7
3	1429.2	36.7	1941	20	US-10-425-115-266
4	1378.4	35.4	1906	13	US-10-021-657-1
5	1378.4	35.4	1906	16	US-10-412-000-1
6	1092	28.0	1092	13	US-10-021-657-5
7	1092	28.0	1092	16	US-10-412-000-5

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ALIGNMENTS

RESULT 1
US-10-021-657-7
; Sequence 7, Application US/10021657
; Publication No. US20020083483A1
; GENERAL INFORMATION:
; APPLICANT: ALBERTSEN, MARC C.
; APPLICANT: FOX, TIM
; APPLICANT: HUFFMAN, GARY
; APPLICANT: TRIMMELL, MARY
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
; TITLE OF INVENTION: METHOD OF USING SAME
; FILE REFERENCE: 1146
; CURRENT APPLICATION NUMBER: US/10/021,657
; CURRENT FILING DATE: 2001-12-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 3897
; TYPE: DNA
; ORGANISM: Zea mays
US-10-021-657-7

Query Match	Score	DB	Length
Best local Similarity	100.0%	Pred. No. 0;	Matches 3897;
		Mismatches 0;	Indels 0;
		Gaps 0;	

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DB 1 GAATTCGAAGCGAGCCCTTGTAGCAGAGAGTGTGATGACATCGCGGAAATGACT 60

[illegible]

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Qy	1261	AGCAGCTGAGGAATCACCAACCGGATATGACATGGCTGTTCGGGTATCTGTCAAGGGACA	1320
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Db	1321	GGAACAGTGAACCGTGCACATGCCGTTCACTTCTCAACCTACATCGCTGACCCGGTGAATG	1380
Qy	1381	TCGAGCATGTCTCTCAAGCTAATCTTACCAATTAACCCCAAGGTAAATGAAGCTGAATCAC	1440
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Qy	1441	TGATGTTCAAGCTCTCGGAATCAGAGCTGAAGGCTGAATCGAATGTGCTGTAACCGGTG	1500
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Db	1501	TAGGGAAATCGTGACAGATCCTTACATGACATGATGATGATGATGATGATGATGATGATG	1560
Qy	1561	GACGGCGAGCTGTGAGGAGGACAGAGGAAGCGGCGAGTTTCGAGTTTCGCTCCAGAAC	1620
Db	1561	GACGGCGAGCTGTGAGGAGGACAGAGGAAGCGGCGAGTTTCGAGTTTCGCTCCAGAAC	1620
Qy	1621	CTGAGGGATTTTCAAGCGCATTTGTTGTTCAAGAGTACTCCCTGAAGCTGTGGGTATATCTG	1680
Db	1621	CTGAGGGATTTTCAAGCGCATTTGTTGTTCAAGAGTACTCCCTGAAGCTGTGGGTATATCTG	1680
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RESULT 2
US-10-412-000-7
; Sequence 7, Application US/10412000
; Publication No. US2003018269A1
; GENERAL INFORMATION:
; APPLICANT: ALBERTSEN, MARC C.
; APPLICANT: FOX, TIM
; APPLICANT: HUFFMAN, GARY
; APPLICANT: TRIMBLE, MARY
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
; TITLE OF INVENTION: METHOD OF USING SAME
; FILE REFERENCE: 1148
; CURRENT APPLICATION NUMBER: US/10/412,000
; CURRENT FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: US/09/670,153
; PRIOR FILING DATE: 2001-06-11
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; TYPE: DNA
; ORGANISM: Zea mays
US-10-412-000-7

Query Match 100.0%; Score 3897; DB 16; Length 3897;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3897; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 181 AGCGAATGAGAGATCTATTGACCTTACATGATGCGGCCAACAAATTCACCTTTAG 240
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Db 481 AAGTGAAGTCTTAAATTTCAATTAATCTTCTTCTTCTAGACTGACATGCAATG 540
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Db 1441 TGAATTTCACTTTCGAAATCAAGACTGAAGTGAATGAAATGCTGAAACCGTG 1500
QY 1501 TGGGAAATGTTGATGAAATCCATCAATGACGTTGCTCTCGGTGAGGCACTTCAAGCGC 1560
| | | | |
Db 1501 TGGGAAATGTTGATGAAATCCATCAATGACGTTGCTCTCGGTGAGGCACTTCAAGCGC 1560
QY 1561 GACGCGAGCTGTGAGAGAAAGCAGAGAAAGACGCGGAGTTTGAAGTTGCTTCAAGAAC 1620
| | | | |
Db 1561 GACGCGAGCTGTGAGAGAAAGCAGAGAAAGACGCGGAGTTTGAAGTTGCTTCAAGAAC 1620
QY 1621 CTGAGGAATTTCAAGGCTTGTGTTCAGAGATCTCTCTGAGCTGTGCGGTATCTG 1680
| | | | |
Db 1621 CTGAGGAATTTCAAGGCTTGTGTTCAGAGATCTCTCTGAGCTGTGCGGTATCTG 1680
QY 1681 AGCGAGGATTCAGAGCGGCAAGTTGTGACATGACGTTGATGATCACTGCTCCCTTGC 1740
| | | | |
Db 1681 AGCGAGGATTCAGAGCGGCAAGTTGTGACATGACGTTGATGATCACTGCTCCCTTGC 1740
QY 1741 CATTCGCAATGAGATTTCAACCTGAGACACGAGAGCTTACCTTGCAGATTCAGGAACT 1800
| | | | |
Db 1741 CATTCGCAATGAGATTTCAACCTGAGACACGAGAGCTTACCTTGCAGATTCAGGAACT 1800
QY 1801 TTAATGAGATGACGCTGGAATCCATCTGCAAGTTGGGTTGCGGCTGAGATCGGCAC 1860
| | | | |
Db 1801 TTAATGAGATGACGCTGGAATCCATCTGCAAGTTGGGTTGCGGCTGAGATCGGCAC 1860
QY 1861 GCTGTGCGCGGATCTCCCGGAGACAGCTTGGCGAGAGCTTCGATGCGCGCAATCAT 1920
| | | | |
Db 1861 GCTGTGCGCGGATCTCCCGGAGACAGCTTGGCGAGAGCTTCGATGCGCGCAATCAT 1920
QY 1921 CGTCAAGCTGCGGTTCAATGACCCGCTGTGGCGCATCAAGAGTTCTTCAAGCTCGGCTC 1980
| | | | |
Db 1921 CGTCAAGCTGCGGTTCAATGACCCGCTGTGGCGCATCAAGAGTTCTTCAAGCTCGGCTC 1980
QY 1981 AGAGGCTCTCTAAGGCGAGAGCATCAAGCTGTGACGAGTTCACTTCAAGCTGATCCG 2040
| | | | |
Db 1981 AGAGGCTCTCTAAGGCGAGAGCATCAAGCTGTGACGAGTTCACTTCAAGCTGATCCG 2040
QY 2041 CCGAGGAAGGCGAGATGATGAGGCGCGGCGCAAGCGGCAACAGAGAAATGATGATG 2100
| | | | |
Db 2041 CCGAGGAAGGCGAGATGATGAGGCGCGGCGCAAGCGGCAACAGAGAAATGATGATG 2100
QY 2101 ACATGATGTTTGAATTTCTTCAAGTTCAATGTTGTGCGCGGATGAGACTGATCTGATTTG 2160
| | | | |
Db 2101 ACATGATGTTTGAATTTCTTCAAGTTCAATGTTGTGCGCGGATGAGACTGATCTGATTTG 2160
QY 2161 ATTATATATCCGTGTGATCTTGTGAGGACAAATTAATAATGAGGATGAAAGCATATCC 2220
| | | | |
Db 2161 ATTATATATCCGTGTGATCTTGTGAGGACAAATTAATAATGAGGATGAAAGCATATCC 2220
QY 2221 TGTCAAGTTCAATGAGGCTTCAAGGCGAGCGCGGAGAGAGCGGCGGCTTGGGGAGACA 2280
| | | | |
Db 2221 TGTCAAGTTCAATGAGGCTTCAAGGCGAGCGCGGAGAGAGCGGCGGCTTGGGGAGACA 2280
QY 2281 AGAGCTCCGGAGAGTGTGCTCAACTTGTGATGCGCGGAGGAGACAGAGCGGAGACA 2340
| | | | |

Db 2281 AGAGCCGCGGAGCGTGTCTCACTTCGATCGCGGCGGAGACACAGCGCGACGA 2340
 QY 2341 CGCTGTGTGTTCACGCAATGCGCATGTCCACCGGACGTGGCGGAGAGTGGGCC 2400
 Db 2341 CGCTGTGTGTTCACGCAATGCGCATGTCCACCGGACGTGGCGGAGAGTGGGCC 2400
 QY 2401 GCGAGCTGTGCGGTTTCAGAGCGGCGCGCGGAGAGGCGTTCGCGTGGCCCT 2460
 Db 2401 GCGAGCTGTGCGGTTTCAGAGCGGCGCGCGGAGAGGCGTTCGCGTGGCCCT 2460
 QY 2461 GCGGCGGCGCTGACGCGCGACGACAGAGGCGTTCGCGCGCGGACGATTCGCGGCC 2520
 Db 2461 GCGGCGGCGCTGACGCGCGACGACAGAGGCGTTCGCGCGCGGACGATTCGCGGCC 2520
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 Db 2521 TCTCTACCTACGACAGCTTCGCGCAAGCTGTCTACCTTCACGCGCTGCGACCGAGACGC 2580
 QY 2581 TCCGCGCTGTACCGCGCGCTTCCTCAAGGTGAGCGCGCGACGCGCTTCGCGTCCAGA 2640
 Db 2581 TCCGCGCTGTACCGCGCGCTTCCTCAAGGTGAGCGCGCGACGCGCTTCGCGTCCAGA 2640
 QY 2641 GCAACAGCATGAGTGTGAGTGTGAAATGCAATGCAATGCACTTGGCGCGCGACGAC 2700
 Db 2641 GCAACAGCATGAGTGTGAGTGTGAAATGCAATGCAATGCACTTGGCGCGCGACGAC 2700
 QY 2701 CCCAAGGAGATCTCTGAGAGACAGCTGTGCGCGACGCGACGAAAGTGAAGGCGCGCGG 2760
 Db 2701 CCCAAGGAGATCTCTGAGAGACAGCTGTGCGCGACGCGACGAAAGTGAAGGCGCGCGG 2760
 QY 2761 ATGATGACGTAACGTGCGCTTCTGATGTGGGCGGATGTGAATGCAATGCGGCGCGCG 2820
 Db 2761 ATGATGACGTAACGTGCGCTTCTGATGTGGGCGGATGTGAATGCAATGCGGCGCGCG 2820
 QY 2821 GCGAGCTTCGCGCGCGGAGCGGTGATCAAGAGATGCGCGTTCGCGCAAGCGCGCGCG 2880
 Db 2821 GCGAGCTTCGCGCGCGGAGCGGTGATCAAGAGATGCGCGTTCGCGCAAGCGCGCGCG 2880
 QY 2881 TTCAGATTTCACGCGCTTCACAGCGCGCGCGCGAGATCTGCGTGGGCAAGGATCTGCGGCGTAC 2940
 Db 2881 TTCAGATTTCACGCGCTTCACAGCGCGCGCGCGAGATCTGCGTGGGCAAGGATCTGCGGCGTAC 2940
 QY 2941 CTGCAATGAAATGTGCGCTGCGCATCTTTCGCGTTCACAGCTTCGCGCTGCGTGGAG 3000
 Db 2941 CTGCAATGAAATGTGCGCTGCGCATCTTTCGCGTTCACAGCTTCGCGCTGCGTGGAG 3000
 QY 3001 GGGCACCGCGGTGAGTACGCGCATGATGACATCTCTCCATGCGGACGCGCTCAAGGTC 3060
 Db 3001 GGGCACCGCGGTGAGTACGCGCATGATGACATCTCTCCATGCGGACGCGCTCAAGGTC 3060
 QY 3061 CGCGTCTTAGGCGCGCTGTGATGTCAATGCGATTTGGGATATCATCCGCTTAATCTTA 3120
 Db 3061 CGCGTCTTAGGCGCGCGCTGTGATGTCAATGCGATTTGGGATATCATCCGCTTAATCTTA 3120
 QY 3121 AAAATTTGCAATGATGATGTAAGGAAAGCGATGGGTTCAATGGTGGCTTGGCTTAAG 3180
 Db 3121 AAAATTTGCAATGATGATGTAAGGAAAGCGATGGGTTCAATGGTGGCTTGGCTTAAG 3180
 QY 3181 CCTTAAAACTCCGCGGCTTCGCGAACACACACATCACTAGGTTTGTACTCTACATC 3240
 Db 3181 CCTTAAAACTCCGCGGCTTCGCGAACACACACATCACTAGGTTTGTACTCTACATC 3240
 QY 3241 CTGAGTGAAGTGTAGTGAAGATCAAGTTATCATATATATATATATATATATATATATAT 3300
 Db 3241 CTGAGTGAAGTGTAGTGAAGATCAAGTTATCATATATATATATATATATATATATATAT 3300
 QY 3301 CGGATGCTTCCCGGAGCTTTTGAAGACATTAATGACAGCGGTGTGAAGAAAGGCTTC 3360
 Db 3301 CGGATGCTTCCCGGAGCTTTTGAAGACATTAATGACAGCGGTGTGAAGAAAGGCTTC 3360
 QY 3361 TTCTGCGGAGATTTTGGGTTGAGATCTTGGCTTTCGAGAGAAAGGTTTGG 3420

Db 3361 TTCTGCGGAGATTTTGGGTTGAGATCTTGGCGTCTTTCGACGAGAAAGGTTTGG 3420
 QY 3421 AAGATCTGAACCTTGAACCGAAATGCTTTCGAAATATGCTTCGATGCGGCGCGGCC 3480
 Db 3421 AAGATCTGAACCTTGAACCGAAATGCTTTCGAAATATGCTTCGATGCGGCGCGGCC 3480
 QY 3481 GTCACTCGGAGTGAAGCAAGGCCCAAGACAGTGAAGGAGCGATCTTTCGAGTTTGG 3540
 Db 3481 GTCACTCGGAGTGAAGCAAGGCCCAAGACAGTGAAGGAGCGATCTTTCGAGTTTGG 3540
 QY 3541 AGACACTCTGAGACCGCTCGGCGCTTCGAGAGCTCATCTTTCGCTCTCTGTCGTCCG 3600
 Db 3541 AGACACTCTGAGACCGCTCGGCGCTTCGAGAGCTCATCTTTCGCTCTCTGTCGTCCG 3600
 QY 3601 TGGCGGACCGCGCGCGCGCGCTGCTGTGTTCGACCAATCCGCGCGCGCGCGGATTCGT 3660
 Db 3601 TGGCGGACCGCGCGCGCGCGCTGCTGTGTTCGACCAATCCGCGCGCGCGCGGATTCGT 3660
 QY 3661 GTACAAACCTTCATCCG 3720
 Db 3661 GTACAAACCTTCATCCG 3720
 QY 3721 CTATTAATCATGATGATTTGATTTTCAATTTTCAACGCGCTTAAACACATATTTTATG 3780
 Db 3721 CTATTAATCATGATGATTTGATTTTCAATTTTCAACGCGCTTAAACACATATTTTATG 3780
 QY 3781 GTAAACAGCTTCAAAATTTGACAAATTTTAAACAGGCAAAACGCTAGCTAAACATTAAG 3840
 Db 3781 GTAAACAGCTTCAAAATTTGACAAATTTTAAACAGGCAAAACGCTAGCTAAACATTAAG 3840
 QY 3841 AGAATGAGACAAACCAAGGTTAGATGAAATAGCTAGTAAACGCAATTC 3897
 Db 3841 AGAATGAGACAAACCAAGGTTAGATGAAATAGCTAGTAAACGCAATTC 3897

RESULT 3
 US-10-425-115-266/C
 ; Sequence 266, Application US/10425115
 ; Publication No. US20040214272A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
 ; FILE REFERENCE: 38-21(53222)B
 ; CURRENT APPLICATION NUMBER: US/10/425,115
 ; NUMBER OF SEQ ID NOS: 369326
 ; SEQ ID NO 266
 ; LENGTH: 1941
 ; TYPE: DNA
 ; ORGANISM: Zea mays
 ; FEATURES:
 ; OTHER INFORMATION: Clone ID: MRT4577_100246C.1
 ; US-10-425-115-266

Query Match 36.7%; Score 1429.2; DB 20; Length 1941;
 Best Local Similarity 82.5%; Pred. No. 0;
 Matches 1882; Conservative 0; Mismatches 13; Indels 385; Gaps 6;

QY 1042 TACATGATTCATCACTTGTAGTACGACCTTCATCAAGACACATGAGAGAGCTC 1101
 Db 1938 TACATGATTCATCACTTGTAGTACGACCTTCATCAAGACACATGAGAGAGCTC 1879
 QY 1102 ACATCACCGCGGAGCGCATGCGCATTTTCCCACTAGACAGGCTCAAGATACATG 1161
 Db 1878 ACCTCACCGCGGAGCGCATGCGCATTTTCCCACTAGACAGGCTCAAGATACATG 1819
 QY 1162 CGCTCTCTGTTGTCCTCTCATGATCTGATGATCTGATGATCTGATGATCTGATGATCTG 1221
 Db 1818 CGCTCTCTGTTGTCCTCTCATGATCTGATGATCTGATGATCTGATGATCTGATGATCTG 1759

QY 1222 AAGGCCGAGATGATGAGCCAGTATGATGCAAGGTTGAGAGCACTGAGGAATTAACACC 1281
Db 1758 AAGGCCGAGATGATGAGCCAGTATGAGCCAGAGGTTGAGAGCACTGAGGAATTAACACC 1699
QY 1282 GATGAGCACTGAGGCTGTTGCTGAGTACCTGATCAGCGCAAGAGCACTGAGGCACTG 1341
Db 1698 GATGAGCACTGAGGCTGTTGCTGAGTACCTGATCAGCGCAAGAGCACTGAGGCACTG 1639
QY 1342 GATGAGCACTGAGGCTGTTGCTGAGTACCTGATCAGCGCAAGAGCACTGAGGCACTG 1401
Db 1638 GATGAGCACTGAGGCTGTTGCTGAGTACCTGATCAGCGCAAGAGCACTGAGGCACTG 1579
QY 1402 ACTTCACTCAATTAACCCAGAGTAATGACCTGAACTCACTGATGTTCACTCTCGGAAAT 1461
Db 1578 ACTTCACTCAATTAACCCAGAGTAATGACCTGAACTCACTGATGTTCACTCTCGGAAAT 1561
QY 1462 CAGAGCTGAAGCTGAATGGAATGTCCTGAACAACCTGTAAGGAATCTGTATCAATCC 1521
Db 1560 CAGAGCTGAAGCTGAATGGAATGTCCTGAACAACCTGTAAGGAATCTGTATCAATCC 1541
QY 1522 TACATGAGAGCTGCTCTCGGAGCAAGGATCTTCAACGCGCAAGGCTGAGGAGAG 1581
Db 1540 TACATGAGAGCTGCTCTCGGAGCAAGGATCTTCAACGCGCAAGGCTGAGGAGAG 1481
QY 1582 CAGAGAGAGCAGCGAGATTTCAGATTGCTCTCAAGAACTGAGGATTTCAAGCGCAT 1641
Db 1480 CAGAGAGAGCAGCGAGATTTCAGATTGCTCTCAAGAACTGAGGATTTCAAGCGCAT 1421
QY 1642 GTGTTCAAGAGATATCTCTGAAAGCTGTGAGGTAATCTAGAGCAAGGATCAAGAGAGC 1701
Db 1420 GTGTTCAAGAGATATCTCTGAAAGCTGTGAGGTAATCTAGAGCAAGGATCAAGAGAGC 1361
QY 1702 AAGTTGTGAGCAATGAGAGTGAATCATGCTCTGTCCTGATTCGCAATGAGCATTTTC 1761
Db 1360 AAGTTGTGAGCAATGAGAGTGAATCATGCTCTGTCCTGATTCGCAATGAGCATTTTC 1346
QY 1762 AACCTGAGACAGAGAGTACTCTTGCAGATTCAAGAACTTTACATGAGATGAGCGCTGAG 1821
Db 1345 AACCTGAGACAGAGAGTACTCTTGCAGATTCAAGAACTTTACATGAGATGAGCGCTGAG 1317
QY 1822 CTCATATCTGAGAGTGGTTCGGGGTCAGAGATCGGAGCGCTGCGCGGATTTCCCGCA 1881
Db 1316 CTCATATCTGAGAGTGGTTCGGGGTCAGAGATCGGAGCGCTGCGCGGATTTCCCGCA 1257
QY 1882 GAAAGAGCTTCGAGAGCGGTCGATGAGCGCAACATCATGTCAGCTGCGGTTCAATGCA 1941
Db 1256 GAAAGAGCTTCGAGAGCGGTCGATGAGCGCAACATCATGTCAGCTGCGGTTCAATGCA 1197
QY 1942 CCGGCTGTGAGCGATCAAGAGTTCTTCAAGTCTGAGGTCAGAGCGCTCTAGCGAGAG 2001
Db 1196 CCGGCTGTGAGCGATCAAGAGTTCTTCAAGTCTGAGGTCAGAGCGCTCTAGCGAGAG 1137
QY 2002 CATCAAGCTTCGAGAGGATTTCACTCAAGCTGATCCGCGAGAGAGGCGAGATTCGT 2061
Db 1136 CATCAAGCTTCGAGAGGATTTCACTCAAGCTGATCCGCGAGAGAGGCGAGATTCGT 1077
QY 2062 CGAGGCGCGGAGCGAGGAGAAAGAGAGATGAGTGAATGATGATGATTCCTTC 2121
Db 1076 CGAGGCGCGGAGCGAGGAGAAAGAGAGATGAGTGAATGATGATGATTCCTTC 21048
QY 2122 AGTTCACTGCTTGGCGGAGATGAACTGATCTGATGATGATGATGATGATGATGATG 2181
Db 1047 AGTTCACTGCTTGGCGGAGATGAACTGATCTGATGATGATGATGATGATGATGATG 1048
QY 2182 TGAGAGCAAAATTAATGAGAGATGAGAGCAATCTCTGTCAGAGTTCATGAGACTAG 2241
Db 1047 TGAGAGCAAAATTAATGAGAGATGAGAGCAATCTCTGTCAGAGTTCATGAGACTAG 1009
QY 2242 GCGAGGCGCGAGCGAGCGGCGGCTTGGGAGAGAGCAAGAGCTTCGCGAGAGTGTGTC 2301
Db 1008 GCGAGGCGCGAGCGAGCGGCGGCTTGGGAGAGAGCAAGAGCTTCGCGAGAGTGTGTC 949

QY 2302 TCACCTTCGTGATGCGCGGCGGAGACAGACGCGACAGACGCTGTGATGATGATGATGATG 2361
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QY 2362 TGGCAGTGTCCACCCCGAGCGTGTGCGAGAGAGCTGCGCGAGAGTGTGCGGTTTCAGAG 2421
Db 888 TGGCAGTGTCCACCCCGAGCGTGTGCGAGAGAGCTGCGCGAGAGTGTGCGGTTTCAGAG 829
QY 2422 CGAGGCGCGGAGAGAGAGGAGTGTGCGCTGTGCTGCGGCGGAGAGTGTGCGGAGAG 2481
Db 828 CGAGGCGCGGAGAGAGAGGAGTGTGCGCTGTGCTGCGGCGGAGAGTGTGCGGAGAG 769
QY 2482 ACAAGCGTTCGCGCGCGCGGAGTGTGCGGAGAGTGTGCGGAGAGTGTGCGGAGAG 2541
Db 768 ACAAGCGTTCGCGCGCGCGGAGTGTGCGGAGAGTGTGCGGAGAGTGTGCGGAGAG 709
QY 2542 GCAAGCTGTGTTAATCTTCAAGCTGCTGCAAGAGAGTGTGCGGAGAGTGTGCGGAGAG 2601
Db 708 GCAAGCTGTGTTAATCTTCAAGCTGCTGCAAGAGAGTGTGCGGAGAGTGTGCGGAGAG 649
QY 2602 CTCAGGTCAGCGCGCGCGAGCAGCGACTCGGTCAGAGCAAGATGAGTGTGAG 2661
Db 648 CTCAGGTCAGCGCGCGCGAGCAGCGACTCGGTCAGAGCAAGATGAGTGTGAG 647
QY 2662 CCTGAATGCAATGACATGCACTTTCGCGCGCGAGACCCCAAGGAGATCTGAGAGAC 2721
Db 646 CCTGAATGCAATGACATGCACTTTCGCGCGCGAGACCCCAAGGAGATCTGAGAGAC 620
QY 2722 GACGTGTCTCCGAGAGGAGAGAGTGTGAGGCTGCGCGGAGAGTGTGAGGAGTGTGAG 2781
Db 619 GACGTGTCTCCGAGAGGAGAGAGTGTGAGGCTGCGCGGAGAGTGTGAGGAGTGTGAG 560
QY 2782 TCGATGAGGCGGATGAGATCACTGAGGAGCCCGAGCGGAGAGTGTGCGGAGAGCGG 2841
Db 559 TCGATGAGGCGGATGAGATCACTGAGGAGCCCGAGCGGAGAGTGTGCGGAGAGCGG 500
QY 2842 TCGATGAGGAGATGAGGAGTGTGCGGAGCGGAGTGTGCGGAGTGTGCGGAGTGTGCG 2901
Db 499 TCGATGAGGAGATGAGGAGTGTGCGGAGCGGAGTGTGCGGAGTGTGCGGAGTGTGCG 440
QY 2902 GCGGCGCGAGAGATGCTGCTGCGGAGAGAGTGTGAGGAGTGTGAGGAGTGTGAGGAG 2961
Db 439 GCGGCGCGAGAGATGCTGCTGCGGAGAGAGTGTGAGGAGTGTGAGGAGTGTGAGGAG 380
QY 2962 GCCATCTCTTTCGCTTCAAGCTTTCGCGGTCGAGAGGAGCAACCGGTCAGTACCGC 3021
Db 379 GCCATCTCTTTCGCTTCAAGCTTTCGCGGTCGAGAGGAGCAACCGGTCAGTACCGC 320
QY 3022 ATGATGAGCATCTCTCAATGAGCGAGCTCAAGAGTTCGCGGTCATGAGGCGCTGCA 3081
Db 319 ATGATGAGCATCTCTCAATGAGCGAGCTCAAGAGTTCGCGGTCATGAGGCGCTGCA 260
QY 3082 TGTCAATGCGATTTG-----GATATCAATCCGCTTAATCC----- 3117
Db 259 TGTCAATGCGATTTGAGATGAGATGATGATGATGATGATGATGATGATGATGATGATG 200
QY 3118 TTAATAATTTGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 3177
Db 199 TTAATAATTTGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATGAGAT 140
QY 3178 AAGCTTTAATAATCTCGTGTGAGTGTGAGAGCAACAGATCACTAGTGTGATGATGATG 3237
Db 139 AAGCTTTAATAATCTCGTGTGAGTGTGAGAGCAACAGATCACTAGTGTGATGATGATG 80
QY 3238 CTCCTCAAGTGAAGTGTGATGAGAGATGAGATGAGATGAGATGAGATGAGATGAGATG 3297
Db 79 CTCCTCAAGTGAAGTGTGATGAGAGATGAGATGAGATGAGATGAGATGAGATGAGATG 20

RESULT 4
US-10-021-657-1
; Sequence 1, Application US/10021657
; Publication No. US20020083483A1

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/ GENERAL INFORMATION:
/ APPLICANT: ALBERTSEN, MARC C.
/ APPLICANT: FOX, TIM
/ APPLICANT: HUFFMAN, GARY
/ APPLICANT: TRIMBLE, MARY
/ TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
/ FILE REFERENCE: 1148
/ CURRENT APPLICATION NUMBER: US/10/021,657
/ NUMBER OF SEQ ID NOS: 7
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 1
/ LENGTH: 1906
/ TYPE: DNA
/ ORGANISM: Zea mays
/ FEATURE:
/ NAME/KEY: CDS
/ LOCATION: (1..1638, 1642..1767)
US-10-021-657-1
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Query Match      35.4%; Score 1378.4; DB 13; Length 1906;
Best Local Similarity 82.1%; Pred. No. 0;
Matches 1833; Conservative 0; Mismatches 16; Indels 385; Gaps 6;
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QY 1088 CATGAGAGAGCTCATATCAGCGCGGCGAGCCATGCGCATTTCTTCCATACAGAGGCC 1147
DB 9 CACGAGAGAGCTCACCTCAGCGCGGCGAGCCATGCGCATTTCTTCCATACAGAGGCC 68
QY 1148 TCACAGATCATGCGCGCTCTCTGTTGTCCTCTCATGAGATCTGCTCCAGAGTGGAG 1207
DB 69 TCACAGATCATGCGCGCTCTCTGTTGTCCTCTCATGAGATCTGCTCCAGAGTGGAG 128
QY 1208 CCTGAGAGAGCAGAAAGGCCCGAGATCATGCGCATGCGCATGCGCAACGGTGGAGAGCT 1267
DB 129 CCTGAGAGAGCAGAAAGGCCCGAGATCATGCGCATGCGCATGCGCAACGGTGGAGAGCT 188
QY 1268 GAGGAACTACACCGGATGACGACCTGCTGCGGTACCTGTCAACGACAGACAGT 1327
DB 189 GAGGAACTACACCGGATGACGACCTGCTGCGGTACCTGTCAACGACAGACAGT 248
QY 1328 GACCGGTGACATGCGCGTTCCTCTCACTACATGCGTGAACCGGTGAATGTGAGCA 1387
DB 249 GACCGGTGACATGCGCGTTCCTCTCACTACATGCGTGAACCGGTGAATGTGAGCA 308
QY 1388 TGTCTCAAGACTTACCTTCAACAAATTAACCCCAAGGTAATGACCTGAATCTGATGTT 1447
DB 309 TGTCTCAAGACTTACCTTCAACAAATTAACCCCA----- 340
QY 1448 CAGTCTTGGAAATCAGAGCTGAAGCTGAATGCTGCTGAACACCGTGTAGGAA 1507
DB 341 -----AGGAA 346
QY 1508 TGTGTACAGATCTCATATGAGAGTCTCTCGGTGACGGCATCTTCAACGCGGAGCG 1567
DB 347 TGTGTACAGATCTCATATGAGAGTCTCTCGGTGACGGCATCTTCAACGCGGAGCG 406
QY 1568 AGCTGTGAGAGAGCAGAGAGAGCGCGAGTTTGAAGTTTCCGCTCAAGAACTGAGG 1627
DB 407 AGCTGTGAGAGAGCAGAGAGAGCGCGAGTTTGAAGTTTCCGCTCAAGAACTGAGG 466
QY 1628 ATTTCAGCGCCATTGTGTTCAAGAGATATCTCTGAAGCTGTGCGGTATATGAGCAG 1687
DB 467 ATTTCAGCGCCATTGTGTTCAAGAGATATCTCTGAAGCTGTGCGGTATATGAGCAG 526
QY 1688 CATCCAGGACGCAAGATTTGTGACATGCAAGGTGAGATCACTGCTCCCTTGGCATTGGC 1747
DB 527 CATCCAGGACGCAAGATTTGTGACATG----- 555
QY 1748 AACATGAGATTTCAACTTGAGACACGAGAGCTTACCTTGCAGATTCAGAACTTTACATG 1807
DB 556 -----CAGGAACTTTACATG 570
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QY 1808 AGATGAGCTGAGACTCATCTGCAAGTTGGTTGCGGGTGGAGATGGGACCGCTGTG 1867
DB 571 AGATGAGCTGAGACTCATCTGCAAGTTGGTTGCGGGTGGAGATGGGACCGCTGTG 630
QY 1868 CCGGATCTCCCGAGAACACTTTCGCGAGGCTTCATGTCGCGCAACATCATCTGACG 1927
DB 631 CCGGATCTCCCGAGAACACTTTCGCGAGGCTTCATGTCGCGCGCAACATCATCAAG 690
QY 1928 CTGCGGTTATGACCTGCTGTGCGCATCAAGAGTTCTTCAAGTGGGTGAGGCC 1987
DB 691 CTGCGGTTATGACCTGCTGTGCGCATCAAGAGTTCTTCAAGTGGGTGAGGCC 750
QY 1988 CTCCTAGCGCAGAGCATCAAGCTGAGAGAGTTCACTCAAGGTATTCGCGGAGG 2047
DB 751 CTCCTAGCGCAGAGCATCAAGCTGAGAGAGTTCACTCAAGGTATTCGCGGAGG 810
QY 2048 AAGGCGGAGATGTCGAGGCGCGGCGCAGCGCAACAGAGAGGTACGTGACATGAC 2107
DB 811 AAGGCGGAGATGTCGAGGCGCGGCGCAGCGCAACAGAGAG----- 853
QY 2108 TGTTCGATTCCTCAGTTGATGTCGTCGCGCGGAGTGAACCTGATCTGATTAATAT 2167
DB 854 ----- 853
QY 2168 ATCCGTGTGATCTGTGAGGACAAATTAATGGGAGATGAAGACAGATCTGTACAG 2227
DB 854 -----AGATGAAGCAGACATCTGTACAG 878
QY 2228 GTTCAATGAGCTAGGCGAGGCGCGCGACAGACGCGCGGCTTCGAGGAGACAGAGCT 2287
DB 879 GTTCAATGAGCTAGGCGAGGCGCGCGACAGACGCGCGGCTTCGAGGAGACAGAGCT 938
QY 2288 CCGGAGCTGTGCTCAACTTGTGATGCGCGGCGGAGACAGACGCGCGACGCTGTC 2347
DB 939 CCGGAGCTGTGCTCAACTTGTGATGCGCGGCGGAGACAGACGCGCGACGCTGTC 998
QY 2348 GTGTTCAAGGACATGCGCATGCTCCACCGGACGTCGCGGAGAACTGCGCGGAGCT 2407
DB 999 GTGTTCAAGGACATGCGCATGCTCCACCGGACGTCGCGGAGAACTGCGCGGAGCT 1058
QY 2408 GTGCGGTTGAGAGCGGAGCGCGCGACAGAGAGGCGCTGCGCTGTCGCGGCGG 2467
DB 1059 GTGCGGTTGAGAGCGGAGCGCGCGACAGAGAGGCGCTGCGCTGTCGCGGCGG 1118
QY 2468 CGCTACCGCTGACGACCAAGGCGTTCGCGCGCGGTGCGAGTTTCGCGGCGCTCTCA 2527
DB 1119 CGCTACCGCTGACGACCAAGGCGTTCGCGCGCGGTGCGAGTTTCGCGGCGCTCTCA 1178
QY 2528 CTACGACGCTCGGCAAGCTGTCTCACTCAACGCTGCTGCAACGAGACGCTCGCT 2587
DB 1179 CTACGACGCTCGGCAAGCTGTCTCACTCAACGCTGCTGCAACGAGACGCTCGCT 1238
QY 2588 GTACCGCGCGCTCAAGGTGAGCGCGCGACACGCGACTCGGTCAGAGCACAGC 2647
DB 1239 GTACCGCGCGCTCAAGGTGAGCGCGCGACACGCGACTCGGTCAGAGCACAGC 1254
QY 2648 ATGCAAGTGAACCTGAATGCAATGACATGACCTTGCAGCGCGACAGACCCCAAG 2707
DB 1255 -----CAGGACCCCAAG 1267
QY 2708 GGAATCTGAGAGACGACGTCGTGCGGACCGGACGAGAGTGAAGGCGCGGAGTGA 2767
DB 1268 GGAATCTGAGAGACGACGTCGTGCGGACCGGACGAGAGTGAAGGCGCGGAGTGA 1327
QY 2768 CGTACGTCCTCACTGATGAGGCGGATGAGTCAACTGAGGCGCGGAGGAGT 2827
DB 1328 CGTACGTCCTCACTGATGAGGCGGATGAGTCAACTGAGGCGCGGAGGAGT 1387
QY 2828 TCAGGCGGAGCGGTGATCAACGAGATGCGGCTTCGCAACGCGTTCGCTTCAAGT 2887
DB 1388 TCAGGCGGAGCGGTGATCAACGAGATGCGGCTTCGCAACGCGTTCGCTTCAAGT 1447
QY 2888 TCAGGCGGTTCCAGGCGGCGGAGATCTGCTGAGCAAGGACTGCGGCTGACAG 2947
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[illegible]

RESULT 5
US-10-412-000-1
Sequence 1

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: Sequence 1 Application US/10412000
: Publication No. US20030182689A1
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: GENERAL INFORMATION:
:
: APPLICANT: ALBERTSEN, MARC C.
: APPLICANT: FOX, TIM
: APPLICANT: HUFFMAN, GARY
: APPLICANT: TRINNELL, MARY
:
: TITLE OF INVENTION: NICOTINIDE SEQUENCES MEDIATING MALE FERTILITY AND
: TITLE OF INVENTION: METHOD OF USING SAME
:
: FILE REFERENCE: 1148
:
: CURRENT APPLICATION NUMBER: US/10/412.000
: CURRENT FILING DATE: 2003-04-11
: PRIOR APPLICATION NUMBER: US/09/670,153
: PRIOR FILING DATE: 2001-06-11
:
: NUMBER OF SEQ ID NOS: 7
:
: SOFTWARE: PatentIn Ver. 2.1
:
: SEQ ID NO 1
:
: LENGTH: 1906
:
: TYPE: DNA
:
: ORGANISM: Zea mays
:
: FEATURE:
:
: NAME/KEY: CDS
: LOCATION: (1..1638, 1642..1767)
:
: US-10-412-000-1

```

Query Match	Score	DB	Length
Best Local Similarly	35.4%	1378.4	1906
Matches 1033; Conservative	82.1%	Pred. No. 0	
	0	Mismatches	16; Indels 385; Gaps 6

QY 1088 CATGAGGAGACCTCAGCAGTACAGCCGGCGAGAGCCATCCGATCTTCTTCCACATGAGAGGCC 1147

Db 9 CACAGGGAGACCTCAGCAGCCGGCGAGAGCCATCCGATCTTCTTCCACATGAGAGGCC 68

QY 1148 TCACAGGATCATCGCGCTCTCTGTGTCTCTCATGATCTCTGTGCCAGAGTGGAG 1207

Db 69 TCACAGGATCATCGCGCTCTTGTGTGTCTCTCATGATCTCTGTGCCAGAGTGGAG 128

QY 1208 CCTGAGGAGCAGGAAGGCCCCGAGATCATGCGCATCTCGGTGCACAGGTGAGCAGCT 1267

D	b	129	CTGTGAGGAAGCAGAAAGGCCCGGAGATCATGCGCACTCATCGGCGCAACGGTGGAGCAGCT	188
Q	y	1268	GAGGAACCTACCAACCGGATGCAAGATGGCTTGTCCGGATACCTGTCAACGGCAAGACAGT	132
D	b	189	GAGGAACCTACCAACCGGATGCAAGATGGCTTGTCCGGATACCTGTCAACGGCAAGACAGT	248
Q	y	1328	GACCGTGGACATGCGGTTCACTTCTTCAACCTTCAATCGCTGACCCGGTGAATGTGAGCA	138
D	b	249	GACCGTGGACATGCGGTTCACTTCTTCAACCTTCAATCGCTGACCCGGTGAATGTGAGCA	308
Q	y	1388	TGTCCTCAAGACTAATCTTCAACCAATTACCCCAAGTAAATGACCTGAACCTCATGTATGT	144
D	b	309	TGTCCTCAAGACTAATCTTCAACCAATTACCCCAAGTAAATGACCTGAACCTCATGTATGT	340
Q	y	1448	CAGTCTTGGAATCAGAGCTGAAAGCTGAATCGAATGCTCTGAACAACCGTAGAGGA	150
D	b	341	-----AGGGA	346
Q	y	1508	TGCTGTACAGATCTTACATGGAAGTGTCTCTCGGTGACGGCATCTTCAAACGCCGACGGCG	156
D	b	347	TGCTGTACAGATCTTACATGGAAGTGTCTCTCGGTGACGGCATCTTCAAACGCCGACGGCG	406
Q	y	1568	AGCTGTGAGGAAGCAGAGGAAGACGGGGAGTTTGAAGTGCCTTCAGAAACCTGAGGG	162
D	b	407	AGCTGTGAGGAAGCAGAGGAAGACGGGGAGTTTGAAGTGCCTTCAGAAACCTGAGGG	466
Q	y	1628	ATTTCAGCGCCATTGTGTTCAGAGAGTACTCCCTGAAGCTGTCCGGTATATCGAACCAAG	168
D	b	467	ATTTCAGCGCCATTGTGTTCAGAGAGTACTCCCTGAAGCTGTCCGGTATATCGAACCAAG	526
Q	y	1688	CATCCAAAGCAGGCAAAAGTTGTGACATGAGTGAATCACTGCTCCCTTGCCATTGCC	174
D	b	527	CATCCAAAGCAGGCAAAAGTTGTGACATGAGTGAATCACTGCTCCCTTGCCATTGCC	555
Q	y	1748	AACATGAACATTTCAACTGAGACACAGAGCTACTTGCAGATTCAAGAACTTTACATG	180
D	b	556	-----CAGGAATTTTACATG	570
Q	y	1808	AGATGACGCTGGAAGCTCCATCTGACAAAGTTGGTTCCGGGATCGAATCGGCAACGCTGTG	186
D	b	571	AGATGACGCTGGAAGCTCCATCTGACAAAGTTGGTTCCGGGATCGAATCGGCAACGCTGTG	630
Q	y	1868	CCGAGTCTCCCGAGAACAGCTTCCGCGAGCGGTTCGATGCCGCAACATCATCGTCAAG	192
D	b	631	CCGAGTCTCCCGAGAACAGCTTCCGCGAGCGGTTCGATGCCGCAACATCATCGTCAAG	690
Q	y	1928	CTGCGGTTCAATCGAACCGGCTGGGGGCAATCAAGAGTTCTTCAAGTCCGGTCAAGAGCC	198
D	b	691	CTGCGGTTCAATCGAACCGGCTGGGGGCAATCAAGAGTTCTTCAAGTCCGGTCAAGAGCC	750
Q	y	1988	CTCCTAGGCGCAGAGCATCAAGCTCGTGAACAGTTCACTTCAAGCGGTATCCGCGGAGG	204
D	b	751	CTCCTAGGCGCAGAGCATCAAGCTCGTGAACAGTTCACTTCAAGCGGTATCCGCGGAGG	810
Q	y	2048	AAAGCCAGATCGTGAAGCCCGGCGCAAGCGGCAAAACAGAGAAAGTACGTGCATGAC	210
D	b	811	AAAGCCAGATCGTGAAGCCCGGCGCAAGCGGCAAAACAGAGAAAGTACGTGCATGAC	853
Q	y	2108	TGTTTCGATCTTCAAGTTCAATCGTCTTGGCCGGAGTGAACCTGAATCTGAATTATAT	216
D	b	854	-----	853
Q	y	2168	ATCCGTGTGACTTGTGAGGACAAATTAAATGGGAGATGAAGCAGCATCTGTGACG	222
D	b	854	-----AGATGAGCACGACATCTGTACG	878
Q	y	2228	GTTCAATGAGCTAAGCGAGGCGGCGACGACGCGCGGCTTCCGGGACGACAAAGCCT	228
D	b	879	GTTCAATGAGCTAAGCGAGGCGGCGACGACGCGCGGCTTCCGGGACGACAAAGCCT	938
Q	y	2288	CCGGGACGTGGTGTCTCAATCTTGATGTCCCGGGCGGGACACGACGCGGACGACGCTGT	234
D	b	939	CCGGGACGTGGTGTCTCAATCTTGATGTCCCGGGCGGGACACGACGCGGACGACGCTGT	998

QY	2348	GTGTTTCAAGCA	CATGCGCAATGTCCCA	CCCGGACGTGGCCGAGAACTGCGCCGCGACT	2407
Db	999	GTGTTTCAAGCA	CATGCGCAATGTCCCA	CCCGGACGTGGCCGAGAACTGCGCCGCGACT	1058
QY	2408	GTGCGCGTTT	CGAGGGGGAGACGGCGCCGCGAGAGAGAGGCGTCCGCGCTCTGTGCGCTCGCGCGG	2467	
Db	1059	GTGCGCGTTT	CGAGGGGGAGACGGCGCCGCGAGAGAGAGGCGTCCGCGCTCTGTGCGCGG	1118	
QY	2468	CGCTGACCCCGACGACAAAGGCGTTTGGCGCGCCGCGTGGCGGAGTTTGGCGGCGTCTGTAC	2527		
Db	1119	CGCTGACCCCGACGACAAAGGCGTTTGGCGCGCGCGGAGAGAGGCGTCCGCGCTCTGTAC	1178		
QY	2528	CTACGACAGCGCTCGGCAAGCTGTGTCTTCCACGCGCTTGCCTGACCGAGACGCTCCGCT	2587		
Db	1179	CTACGACAGCGCTCGGCAAGCTGTGTCTTCCACGCGCTTGCCTGACCGAGACGCTCCGCT	1238		
QY	2588	GTACCCCGCGCGCTTCCAGGTGAGGCGCCCGGACGCGACCTCCGCGTCCAGACGACG	2647		
Db	1239	GTACCCCGCGCGCTTCCAGGTGAGGCGCCCGGACGCGACCTCCGCGTCCAGACGACG	1254		
QY	2648	ATGCAGTGAGTGA	CCTGAAATGCAATGCAATGCACTTGGCGCGCGGAGACCCAAAG	2707	
Db	1255	-----	-----CAGACCCCAAGG	1267	
QY	2708	GGATCTTGAGAGGACGACGTGCTCCGGAACGGGACGAGGTAGAGGCGCGGAGATGTGA	2767		
Db	1268	GGATCTTGAGAGGACGACGTGCTCCGGAACGGGACGAGGTAGAGGCGCGGAGATGTGA	1327		
QY	2768	CGTACGTGCGCTTACCTCGAATGGGGGCGGAGTGAATCAACTGGGGGCGCGGACGCGAGCT	2827		
Db	1328	CGTACGTGCGCTTACCTCGAATGGGGGCGGAGTGAATCAACTGGGGGCGCGGAGAGCT	1387		
QY	2828	TCGGCGCGGAGCGGTGATCAACGAGATGGCGCGTTCCGACGCGTGGCGTTCAAGT	2887		
Db	1388	TCGGCGCGGAGCGGTGATCAACGAGATGGCGCGTTCCGACGCGTGGCGTTCAAGT	1447		
QY	2888	TCACGCGCTTCCAGCGCGGGGCGGAGGATCTGCTGGGGCAAGACTCCGCGTCACTTGACAG	2947		
Db	1448	TCACGCGCTTCCAGCGCGGGGCGGAGGATCTGCTGGGGCAAGACTCCGCGTCACTTGACAG	1507		
QY	2948	TGAAGATGGCGCTGGCCCATCTCTTGGCGCTTCAACAGCTTCCGCGTGTGAGAGGGGACG	3007		
Db	1508	TGAAGATGGCGCTGGCCCATCTCTTGGCGCTTCAACAGCTTCCGCGTGTGAGAGGGGACG	1567		
QY	3008	CGGTGCAATGACCGCATGATGACCAATCTCTCATGGCGGACGCGCTCAAGGTCCGCGCT	3067		
Db	1568	CGGTGCAATGACCGCATGATGACCAATCTCTCATGGCGGACGCGCTCAAGGTCCGCGCT	1627		
QY	3068	CTAGGGCGCGTGAATGTCATGCGCAATTG-----GGAATCATCCGCTTAATCC-----	3117		
Db	1628	CTAGGGCGCGTGAATGTCATGCGCAATTGGAATGATGATGCTCCGCTTAATCAACGAC	1687		
QY	3118	-----TTAAATAATTTGCATGATGATGATGAGGAAGGATGGGTTTCAT	3163		
Db	1688	AAATPAGCGTGTGTTACAATTTTGCATGATGATGATGAGGAAGGATGGGTTTCAT	1747		
QY	3164	TGGTGGCTTGGCTTAAGCCTTAATAAATCTCCGTCCGCTTTTGGCAACCAACATACATAG	3223		
Db	1748	TGGTGGCTTGGCTTAAGCCTTAATAAATCTCCGTCCGCTTTTGGCAACCAACATACATAG	1807		
QY	3224	TGTTTGTACTCTACTCCTCGATGGAGTGTAGTACAGCATACAGTTCAATCATATATA	3283		
Db	1808	TGTTTGTACTCTACTCCTCGATGGAGTGTAGTACAGCATACAGTTCAATCATATATA	1867		
QY	3284	TTATCTCTTCTTCTT 3297			
Db	1868	TTATCTCTTCTTCTT 1881			

```

: Publication No. US20020083483A1
: GENERAL INFORMATION:
: APPLICANT: ALBERTSEN, MARC C.
: APPLICANT: FOX, TIM
: APPLICANT: HUFFMAN, GARY
: APPLICANT: TRIMMELL, MARY
: TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
: TITLE OF INVENTION: METHOD OF USING SAME
: FILE REFERENCE: 1148
: CURRENT APPLICATION NUMBER: US/10/021,657
: CURRENT FILING DATE: 2001-12-14
: NUMBER OF SEQ ID NOS: 7
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 5
: LENGTH: 1092
: TYPE: DNA
: ORGANISM: Zea mays
: US-10-021-657-5

```

Query Match	28.0%	Score 1092;	DB 13;	Length 1092;
Best Local Similarity	100.0%	Pred. No. 9, 2e-21;		
Matches 1092;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

Oy	GAATTCACAGCAGGCGCTTGTAGAGAGAGGTTGCTGATGACAGTGGCGGGAATATAGT	60
Dp	1 GAAATTCAMACGGCGCCTTGTAGCAGAGAGTGTGTCTGATGACAGTGGCGGGAATATAGT	60
Oy	61 GCGTGCCTGAGAGCAACGCTGAGGGGTTCAGGGATGCAATAGCTATGCAATCGCTAG	120
Dp	61 GCGTGCCTGAGAGCAACGCTGAGGGGTTCAGGGATGCAATAGCTATGCAATCGCTAG	120
Oy	121 AGGTGAGAGCAAGGTGTGAGAGATTGGAGGGCACTATGCGAAGTTGTGTAAAGGC	180
Dp	121 AGGTGAGAGCAAGGGTGTGAGAGATTGGAGGGCACTATGCGAAGTTGTGTAAAGGC	180
Oy	181 ACCCAATGAGAGATCTAATCAGACTTACACTGGAATGCCGCAAGAAATTCACCTTTAGA	240
Dp	181 ACCCAATGAGAGATCTAATCAGACTTACACTGGAATGCCGCAAGAAATTCACCTTTAGA	240
Oy	241 TTTTGAATCTGACTCTCTACTTTAATTCCTTGGTGGCACTTCCAATAGGCTCATGTT	300
Dp	241 TTTTGAATCTGACTCTCTACTTTAATTCCTTGGTGGCACTTCCAATAGGCTCATGTT	300
Oy	301 AATCATGATTTAGTGAATTTACAGCAATATTTCTGTGTTGTTGACATTTAATATATG	360
Dp	301 AATCAATGATTTAGTGAATTTACAGCAAAATATTCGTGTGTTGACATTTAATATATG	360
Oy	361 GGGTGAAGAGGATTTAAATATCATCCATGAGAGCTTATCCTCATGCTCTCTGAAATTTGG	420
Dp	361 GGGTGAAGAGGATTTAAATATCATCATGAGAGCTTATCCTCATGCTCTCTGAAATTTGG	420
Oy	421 TTTCAATCAATCTTTCAGTGTTCAGAGAAATTTCTCAGTTTGGTCCATGTAAATTTTG	480
Dp	421 TTTCAATCAATCTTTCAGTGTTCAGAGAAATTTCTCAGTTTGGTCCATGTAAATTTTG	480
Oy	481 AATGTAGGTTCTTAAATTTCAATATGCTTCCTTTCTTAACTATGCAATCTGCAATGA	540
Dp	481 AATGTAGGTTCTTAAATTTCAATATGCTTCCTTTCTTAACTATGCAATCTGCAATGA	540
Oy	541 CTTTTCATCTTGGGTTCACAATTTGACTCAAGAAGAAACAATTCACATTGTTGGGTTCACA	600
Dp	541 CTTTTCATCTTGGGTTCACAATTTGACTCAAGAAGAAACAATTCACATTGTTGGGTTCACA	600
Oy	601 AATTCCTCTTCAGAGATGACTTTCACTTGAACGTGCACTGTATAGCAACAGGAATGCT	660
Dp	601 AATTCCTCTTCAGAGATGACTTTCACTTGAACGTGCACTGTATAGCAACAGGAATGCT	660
Oy	661 CAGTTTATTAAGGAACAATGACAGATTCATTTCAGAACTCTTCTGATTTGGTGAAGTTT	720
Dp	661 CAGTTTATTAAGGAACAATGACAGATTCATTTCAGAACTCTTCTGATTTGGTGAAGTTT	720
Oy	721 CAGACTTTTGTACCAAGCTGATGATCACAATCTTGTTCAAAGTCTGATTAACAGA	780

Db 721 CAGACTTTTGTACAGAGCTGATGATCAACAATCTTGTTCAGAGTCTGATACAGAA 780
Qy 781 ACTGGCAATCTCCAAATTTGATTAATAAATAATTAATACGATTCGATATCTCATTTTC 840
Db 781 ACTGGCAATCTCCAAATTTGATTAATAAATAATTAATACGATTCGATATCTCATTTTC 840
Qy 841 TTGGTTGGAGATCACAAGAAAGAGACAAAGGCTAAGCTCTTACTTGTTCGGAGTTA 900
Db 841 TTGGTTGGAGATCACAAGAAAGAGACAAAGGCTAAGCTCTTACTTGTTCGGAGTTA 900
Qy 901 GGTGAGGAGACACCAATATGATGAAGAAATCTTAATTTGGGGTCAACAAGATGTCTC 960
Db 901 GGTGAGGAGACACCAATATGATGAAGAAATCTTAATTTGGGGTCAACAAGATGTCTC 960
Qy 961 TCTCGAGGTTGGGGGGTCCCTAAGTTGGATGAGCAATACCAATATATACCTTAACA 1020
Db 961 TCTCGAGGTTGGGGGGTCCCTAAGTTGGATGAGCAATACCAATATATACCTTAACA 1020
Qy 1021 ACCCAATCCATGCTATACATACATACATACATCCATCATCTGTAGACTGACCCCTTCAT 1080
Db 1021 ACCCAATCCATGCTATACATACATACATACATCCATCATCTGTAGACTGACCCCTTCAT 1080
Qy 1081 AGAGCACCATGG 1092
Db 1081 AGAGCACCATGG 1092

RESULT 7
US-10-412-000-5
; Sequence 5, Application US/10412000
; Publication No. US20030182689A1
; GENERAL INFORMATION:
; APPLICANT: ALBERTSEN, MARC C.
; APPLICANT: FOX, TIM
; APPLICANT: HOFFMAN, GARY
; APPLICANT: TRIMMEL, MARY
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
; FILE REFERENCE: 1148
; CURRENT APPLICATION NUMBER: US/10/412,000
; CURRENT FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: US/09/670,153
; PRIOR FILING DATE: 2001-06-11
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1092
; TYPE: DNA
; ORGANISM: Zea mays
US-10-412-000-5

Query Match 28.0%; Score 1092; DB 16; Length 1092;
Best Local Similarity 100.0%; Pred.No.9.2e-291;
Matches 1092; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GAATTCAGACGAGGCGCTTGTAGACAGAGTGTGCTGATGAGTCCGGGGAATGAGT 60
Db 1 GAATTCAGACGAGGCGCTTGTAGACAGAGTGTGCTGATGAGTCCGGGGAATGAGT 60
Qy 61 GCGTGTGAGAGCAACGCTGAGGGGTTCCAGGAGTGGCAATGGCTATGGCAATCGGCTAG 120
Db 61 GCGTGTGAGAGCAACGCTGAGGGGTTCCAGGAGTGGCAATGGCTATGGCAATCGGCTAG 120
Qy 121 AGGTGAGAGCAAGGTGTGAGAGATTTGGAGGCAACCTATGGCAAGTTGTGTAAGAGC 180
Db 121 AGGTGAGAGCAAGGTGTGAGAGATTTGGAGGCAACCTATGGCAAGTTGTGTAAGAGC 180
Qy 181 AGCAATGAGAGATCTATTACAGACTTACACTGATGCGGCAACAATTCAACTTTAG 240
Db 181 AGCAATGAGAGATCTATTACAGACTTACACTGATGCGGCAACAATTCAACTTTAG 240
Qy 241 TTTGATGATGCTGACTCTTAATTATTCCTTGGTTGGGCAACTTCMAATGAGCTCATGTT 300
Db 241 TTTGATGATGCTGACTCTTAATTATTCCTTGGTTGGGCAACTTCMAATGAGCTCATGTT 300

Db 241 TTTGATGATGCTGACTCTTAATTATTCCTTGGTTGGGCAACTTCMAATGAGCTCATGTT 300
Qy 301 AATTCATGATTTGATTAATTAATGCAAAATATCTTGTGTTGACATTAATATATG 360
Db 301 AATTCATGATTTGATTAATTAATGCAAAATATCTTGTGTTGACATTAATATATG 360
Qy 361 GGTGAGAGCGATTAAT 420
Db 361 GGTGAGAGCGATTAAT 420
Qy 421 TTTGATGATGCTTCAAGTGTTCACAGAAATTTTCTCAGTTGGTCCATGTAATTTTG 480
Db 421 TTTGATGATGCTTCAAGTGTTCACAGAAATTTTCTCAGTTGGTCCATGTAATTTTG 480
Qy 481 AAGTGAAGTCTTAAATTTCAATTAATGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 540
Db 481 AAGTGAAGTCTTAAATTTCAATTAATGCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 540
Qy 541 CTTTTCATCTTGGGTTCAAAATGATCACAAGAAACAAATTCATCTTGGGTTCA 600
Db 541 CTTTTCATCTTGGGTTCAAAATGATCACAAGAAACAAATTCATCTTGGGTTCA 600
Qy 601 AATTCCTTCAAGATGATCTTTTCACTTGAACCTGATATAGGAAATGAGCT 660
Db 601 AATTCCTTCAAGATGATCTTTTCACTTGAACCTGATATAGGAAATGAGCT 660
Qy 661 CAGTTTAAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Db 661 CAGTTTAAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
Qy 721 CAGACTTTTGTACAGAGCTGATGATCACAATCTTGTTCAGAGTCTGATACAGAA 780
Db 721 CAGACTTTTGTACAGAGCTGATGATCACAATCTTGTTCAGAGTCTGATACAGAA 780
Qy 781 ACTGCACTCTCTAATGATTAATAAAGATTAATAATACGATATGATATCTCATTTTC 840
Db 781 ACTGCACTCTCTAATGATTAATAAAGATTAATAATACGATATGATATCTCATTTTC 840
Qy 841 TTGGTTGGAGATCAAAAAGAGCAACAAAGGCTTACGCTCTTGTGGGAGTTA 900
Db 841 TTGGTTGGAGATCAAAAAGAGCAACAAAGGCTTACGCTCTTGTGGGAGTTA 900
Qy 901 GGTGAGGAGACACCAATATGATGAAGAAATCTTAATTTGGGGTCAACAAGATGTCTC 960
Db 901 GGTGAGGAGACACCAATATGATGAAGAAATCTTAATTTGGGGTCAACAAGATGTCTC 960
Qy 961 TCTCGAGGTTGGGGGGTCCCTAAGTTGGATGAGCAATACCAATATATACCTTAACA 1020
Db 961 TCTCGAGGTTGGGGGGTCCCTAAGTTGGATGAGCAATACCAATATATACCTTAACA 1020
Qy 1021 ACCCAATCCATGCTATACATACATACATACATCCATCATCTGTAGACTGACCCCTTCAT 1080
Db 1021 ACCCAATCCATGCTATACATACATACATACATCCATCATCTGTAGACTGACCCCTTCAT 1080
Qy 1081 AGAGCACCATGG 1092
Db 1081 AGAGCACCATGG 1092

RESULT 8
US-10-767-701-13826
; Sequence 13826, Application US/10767701
; Publication No. US20040172684A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128

SEQ ID NO 13826
LENGTH: 1898
TYPE: DNA
ORGANISM: Sorghum bicolor
FEATURES:
OTHER INFORMATION: Clone ID: SORBI-28MAY03-CLUS46299_1
US-10-767-701-13826

Query Match 27.8%; Score 1083.8; DB 19; Length 1898;
Best Local Similarity 76.1%; Pred. No. 2,4e-288;
Matches 1665; Conservative 0; Mismatches 132; Indels 392; Gaps 11;

QY 1091 GGAGGAAGCTCATATCAAGCCGCGGAGCGCATGCGCATCTCTCCACTACAGGCGCTCA 1150
DB 7 GGAGGAAGCTCATATCAAGCCGCGGAGCGCATCTCTCCACTACAGGCGCTCA 60
QY 1151 CAAGTACATGCGCGCTCTCTCTGTTGTCTCTCATATGATCTGTATCCAGAGTGAAGCT 1210
DB 61 CAAGTACATGCGCGCTCTCTCTGTTGTCTCTCATATGAGCGCTGTCCATAGTGAAGCT 120
QY 1211 GAGGAAGCAGAAAGCGCCGAGATCATAGCCATCATCGGTGACAAAGGTGAGCACTGAG 1270
DB 121 GAGGAAGCAGAAAGCGCCGAGATCATAGCCGATCATAGCGCCATGAGCAAGCTGAG 180
QY 1271 GAACCTACACCGGATGAGCACTGCGCTTGTGCGGTACCTGTACGCGCAGAGCAAGTAC 1330
DB 181 GAACCTACACCGGATGAGCACTGCGCTTGTGGTGTACCTGTACGCGCAGAGCAAGTAC 240
QY 1331 CGTGCATGCGCGCTTCACTTCTTACACCTTACATCGCTGACCCGCGTGAATGTGAGCA 1390
DB 241 CGTGCATGCGCGCTTCACTTCTTACACCTTACATCGCTGACCCGCGTGAATGTGAGCA 300
QY 1391 CCTCAAGACTTAACTTCACTCACTTAACTCCCAAGGTAAATGACTGAATCTCACTGATTT 1450
DB 301 CCTCAAGACTTAACTTCACTCACTTAACTCCCAAGGTAAATGACTGAATCTCACTGATTT 329
QY 1451 TCTTCGGAATTCAGAGTGAAGCTGAATGGAATGTGCTGAAACCGCTGTAGGAATG 1510
DB 330 TCTTCGGAATTCAGAGTGAAGCTGAATGGAATGTGCTGAAACCGCTGTAGGAATG 338
QY 1511 TGTACAGATCTTACATGAGAGTGTCTCTCGGTGACGCGCATCTTCAAGCGCAGCGAG 1570
DB 339 TGTACAGATCTTACATGAGAGTGTCTCTCGGTGACGCGCATCTTCAAGCGCAGCGAG 398
QY 1571 TGTGAGAGAGCAGAGAGAGCGCGAGTTTGAATTTGCTTCAAGAACTTGAAGGAT 1630
DB 399 TGTGAGAGAGCAGAGAGAGCGCGAGTTTGAATTTGCTTCAAGAACTTGAAGGAT 458
QY 1631 TCAGCGCCATTGTGTTCAAGAGTACTCCCTGAAGCTGTGCGGTATATGAGCCAGGAT 1690
DB 459 TCAGCGCCATTGTGTTCAAGAGTACTCCCTGAAGCTGTGCGGTATATGAGCCAGGAT 518
QY 1691 CCAAGGCAAGCAAGTTGTGAGCATGCAAGTGAATCACTGTCCCTTGCATTGCGCAAC 1750
DB 519 CCAAGGCAAGCAAGTTGTGAGCATG----- 544
QY 1751 ATGAGCATTTCAAACCTGAGACAGAGAGCTAAGCTTCCGCAATTCAGAACTTTTACATGAG 1810
DB 545 ATGAGCATTTCAAACCTGAGACAGAGAGCTAAGCTTCCGCAATTCAGAACTTTTACATGAG 562
QY 1811 ATGAGCATTTCAAACCTGAGAGTTTGGGTTGCGGGTGAAGTCCGCAAGCTGTGCGCG 1870
DB 563 ATGAGCATTTCAAACCTGAGAGTTTGGGTTGCGGGTGAAGTCCGCAAGCTGTGCGCG 622
QY 1871 GATCTCCCGAGAAAGCTTCCGCGCAGGCGCTTCAATGCGCCTCAATCATCTGACGCTG 1930
DB 623 GATCTCCCGAGAAAGCTTCCGCGCAGGCGCTTCAATGCGCCTCAATCATCTGACGCTG 682
QY 1931 CGGTTTATGAGCCCGCTGTGCGCATCAAGAGTTCTTCCAGCTCGGCTGAGAGCGCTTC 1990
DB 683 CGGTTTATGAGCCCGCTGTGCGCATCAAGAGTTCTTCCAGCTCGGCTGAGAGCGCTTC 742
QY 1991 CTAGCCAGAGCATCAAGCTGTGAGAGAGTTCAAGCTTCAAGCTGATCCGCGGAGAGAG 2050

DB 743 CTGGCGAGAGCATCAAGCTCTGTGAGAGATTCACTTACAGCTGTATCCGCGGAGAGAG 802
QY 2051 GCCGAGATGCTCGAGGCGCGCGCAGCGGCAACAGAGAGGTACGTGACATGACTGT 2110
DB 803 GCCGAGATGCTCGAGGCGCGCGCAGCGGCAACAGAGAG----- 842
QY 2111 TTGCAATTCATTCAAGTTCATGCTCTTGGCCGCGGATGAGCTGTATCTGATTGATTATATC 2170
DB 843 TTGCAATTCATTCAAGTTCATGCTCTTGGCCGCGGATGAGCTGTATCTGATTGATTATATC 842
QY 2171 CGTGTACTTTGTAGAGCAAAATTTAAATGGGCAATGAGCAAGCAATCTGTCAAGCTT 2230
DB 843 CGTGTACTTTGTAGAGCAAAATTTAAATGGGCAATGAGCAAGCAATCTGTCAAGCTT 870
QY 2231 CATGAGTATGAGCGAGCGCGCAGCAGAGAGGAGGAGCTGTGCGGAGCAAGAGCTTCG 2290
DB 871 CATGAGTATGAGCGAGCGCGCAGCAGAGAGGAGGAGCTGTGCGGAGCAAGAGCTTCG 927
QY 2291 GAGCTGTGTCTCACTTGTGTATGCGCCGCGCGGAGCAAGAGCGGAGCAAGCTGTCTG 2350
DB 928 GAGCTGTGTCTCACTTGTGTATGCGCCGCGCGGAGCAAGAGCGGAGCAAGCTGTCTG 987
QY 2351 GTTCAAGCAATGAGCCCATGTTCCCAAGCGGAGCTGTGCGGAGGAGCTGTGCGGAGCTG 2410
DB 988 GTTCAAGCAATGAGCCCATGTTCCCAAGCGGAGCTGTGCGGAGGAGCTGTGCGGAGCTG 1047
QY 2411 CGCGTTGAGAGCGAGCGCGCGCAGAGAGGAGGAGCTGTGCGGAGCTGTGCGGAGCG 2470
DB 1048 CGCGTTGAGAGCGAGCGCGCGCAGAGAGGAGGAGCTGTGCGGAGCTGTGCGGAGCG 1104
QY 2471 TGAAGCGGAGCAAGAGCGTTGCGCGCGCGGTGAGGAGCTGTGCGGAGCTGTCTCA 2530
DB 1105 TGAAGCGGAGCAAGAGCGTTGCGCGCGCGGTGAGGAGCTGTGCGGAGCTGTCTCA 1161
QY 2531 CGAGAGCTCGGAGAGCTGTCTTACCTCAAGCTGTGCGGAGCTGTGCGGAGCTGTG 2590
DB 1162 CGAGAGCTCGGAGAGCTGTCTTACCTCAAGCTGTGCGGAGCTGTGCGGAGCTGTG 1221
QY 2591 CCCCGCGTCCCTCAGGTGAGCGCGCGCAGACAGGAGCTGTGCGGAGCTGTGAGCAAG 2650
DB 1222 CCCCGCGTCCCTCAGGTGAGCGCGCGCAGACAGGAGCTGTGCGGAGCTGTGAGCAAG 1234
QY 2651 CAGTGAAGTGAACCTGAATGCAATGCAATGCACTTGTGCGGCGCGCAGACAGGAG 2710
DB 1235 CAGTGAAGTGAACCTGAATGCAATGCAATGCACTTGTGCGGCGCGCAGACAGGAG 1250
QY 2711 TCTTGAAGAGCAGAGCTGTGCGCGCAGCAGAGAGTGAAGGCGCGGAGAGTGTGAGCT 2770
DB 1251 TCTTGAAGAGCAGAGCTGTGCGCGCAGCAGAGAGTGAAGGCGCGGAGAGTGTGAGCT 1310
QY 2771 ACGTCCCTACTCGATGAGGCGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 2830
DB 1311 ACGTCCCTACTCGATGAGGCGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 1370
QY 2831 GGCAGAGCGGTGATCAAGAGAGTGTGCGGCTTCCGCAAGCTGTGCGGCTTCAAGTTCA 2890
DB 1371 GGCAGAGCGGTGATCAAGAGAGTGTGCGGCTTCCGCAAGCTGTGCGGCTTCAAGTTCA 1430
QY 2891 CGGCGTTCAAGCGCGGCGCGGAGATCTGCTGTGCGGAGAGCTGTGCGGAGAGTGA 2950
DB 1431 CGGCGTTCAAGCGCGGCGCGGAGATCTGCTGTGCGGAGAGCTGTGCGGAGAGTGA 1490
QY 2951 AGATGCGGTGCGCATCTTGTGCGCTTCTTACAGCTTCCGCTGTGAGAGGAGCAGCG 3010
DB 1491 AGATGCGGTGCGCATCTTGTGCGCTTCTTACAGCTTCCGCTGTGAGAGGAGCAGCG 1550
QY 3011 TGAAGTACGAGTGAATGACATCTTCTTCAGTGAAGGAGAGGAGCTTCAAGGCTGCTCTTA 3070
DB 1551 TGAAGTACGAGTGAATGACATCTTCTTCAGTGAAGGAGAGGAGCTTCAAGGCTGCTCTTA 1610
QY 3071 GAGCGGTGAGTGAATGAGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 3125


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/ Publication No. US20020083483A1
/ GENERAL INFORMATION:
/ APPLICANT: ALBERTSEN, MARC C.
/ APPLICANT: FOX, TIM
/ APPLICANT: HUFPMAN, GARY
/ APPLICANT: TRIMMELL, MARY
/ TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
/ FILE REFERENCE: 1148
/ CURRENT APPLICATION NUMBER: US/10/021.657
/ CURRENT FILING DATE: 2001-12-14
/ NUMBER OF SEQ ID NOS: 7
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 6
/ LENGTH: 267
/ TYPE: DNA
/ ORGANISM: Zea mays
US-10-021-657-6
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Query Match      6.7%; Score 263; DB 13; Length 267;
Best Local Similarity 100.0%; Pred. No. 9.7e-62;
Matches 263; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      830 ATCTCATTTTCTGTTGGAGATCACAAAAGGAGCAAAAGGCTTACTTCTG 889
      5 ATCTCATTTTCTGTTGGAGATCACAAAAGGAGCAAAAGGCTTACTTCTG 64
QY      890 TTGGGAGTTAGGTGAGGACACCATATGATGAATGAATCTTAATTTGGGTCACCC 949
      65 TTGGGAGTTAGGTGAGGACACCATATGATGAATGAATCTTAATTTGGGTCACCC 124
QY      950 AAGATTGCTCTCTCGAGGTTGGGGGCTCCCTTAAGTTGGTAGAGCAATACCAATATA 1009
      125 AAGATTGCTCTCTCGAGGTTGGGGGCTCCCTTAAGTTGGTAGAGCAATACCAATATA 184
QY      1010 TCACCTAACAAACCAATCCATGCTATACATATAGCATCATCTGTAGACTGG 1069
      185 TCACCTAACAAACCAATCCATGCTATACATATAGCATCATCTGTAGACTGG 244
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QY      1070 ACCCTTCATCAAGAGCACCATGG 1092
      245 ACCCTTCATCAAGAGCACCATGG 267
DB
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RESULT 12
US-10-412-000-6
/ Sequence 6, Application US/10412000
/ Publication No. US20030182689A1
/ GENERAL INFORMATION:
/ APPLICANT: ALBERTSEN, MARC C.
/ APPLICANT: FOX, TIM
/ APPLICANT: HUFPMAN, GARY
/ APPLICANT: TRIMMELL, MARY
/ TITLE OF INVENTION: NUCLEOTIDE SEQUENCES MEDIATING MALE FERTILITY AND
/ FILE REFERENCE: 1148
/ CURRENT APPLICATION NUMBER: US/10/412.000
/ CURRENT FILING DATE: 2003-04-11
/ PRIOR APPLICATION NUMBER: US/09/670.153
/ PRIOR FILING DATE: 2001-06-11
/ NUMBER OF SEQ ID NOS: 7
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 6
/ LENGTH: 267
/ TYPE: DNA
/ ORGANISM: Zea mays
US-10-412-000-6
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Query Match      6.7%; Score 263; DB 16; Length 267;
Best Local Similarity 100.0%; Pred. No. 9.7e-62;
Matches 263; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      830 ATCTCATTTTCTGTTGGAGATCACAAAAGGAGCAAAAGGCTTACTTCTG 889
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DB      5 ATCTCATTTTCTGTTGGAGATCACAAAAGGAGCAAAAGGCTTACTTCTG 64
QY      890 TTGGGAGTTAGGTGAGGACACCATATGATGAATGAATCTTAATTTGGGTCACCC 949
      65 TTGGGAGTTAGGTGAGGACACCATATGATGAATGAATCTTAATTTGGGTCACCC 124
QY      950 AAGATTGCTCTCTCGAGGTTGGGGGCTCCCTTAAGTTGGTAGAGCAATACCAATATA 1009
      125 AAGATTGCTCTCTCGAGGTTGGGGGCTCCCTTAAGTTGGTAGAGCAATACCAATATA 184
QY      1010 TCACCTAACAAACCAATCCATGCTATACATATAGCATCATCTGTAGACTGG 1069
      185 TCACCTAACAAACCAATCCATGCTATACATATAGCATCATCTGTAGACTGG 244
DB
QY      1070 ACCCTTCATCAAGAGCACCATGG 1092
      245 ACCCTTCATCAAGAGCACCATGG 267
DB
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RESULT 13
US-10-425-115-87794/C
/ Sequence 87794, Application US/10425115
/ Publication No. US20040214272A1
/ GENERAL INFORMATION:
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Kovalic, David K.
/ APPLICANT: Zhou, Yihua
/ APPLICANT: Cao, Yongwei
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
/ FILE REFERENCE: 38-21 (53222)B
/ CURRENT APPLICATION NUMBER: US/10/425.115
/ CURRENT FILING DATE: 2003-04-28
/ NUMBER OF SEQ ID NOS: 369326
/ SEQ ID NO 87794
/ LENGTH: 342
/ TYPE: DNA
/ ORGANISM: Zea mays
/ FEATURE:
/ NAME/KEY: unsure
/ LOCATION: (1) - (342)
/ OTHER INFORMATION: unsure at all n locations
/ OTHER INFORMATION: Clone ID: MRT4577_180066C.1
US-10-425-115-87794
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Query Match      5.8%; Score 224.6; DB 20; Length 342;
Best Local Similarity 97.8%; Pred. No. 4.8e-51;
Matches 227; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
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QY      1 GAATTCACGAGAGGCGCTTGTAGACAGAGTGTGCTATGCAAGTCGGCGGAATGAGT 60
      240 GAATTCACGAGAGGCGCTTGTAGACAGAGTGTGCTATGCAAGTCGGCGGAATGAGT 181
DB
QY      61 GCGTGTGAGACCAAGCTGAGGGGTTCCAGGATGCGCAATGCGCAATCGGCTAG 120
      180 GCGTGTGAGACCAAGCTGAGGGGTTCCAGGATGCGCAATGCGCAATCGGCTAG 121
QY      121 AGGTGAGACCAAGGTGTGAGAGATTGGAGGGCAACTATGCGCAAGTTGTGAGAGGC 180
      120 AGGTGAGACCAAGGTGTGAGAGATTGGAGGGCAACTATGCGCAAGTTGTGAGAGGC 61
DB
QY      181 ACGCATGAGAGATCTATTCAAGCTTACAGTGGATGCGCGCAAAATTCAA 232
      60 ACGCATGAGAGATCTATTCAAGCTTACAGTGGATGCGCGCAAAATTCAA 9
DB
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RESULT 14
US-10-437-963-51459
/ Sequence 51459, Application US/10437963
/ Publication No. US20040123343A1
/ GENERAL INFORMATION:
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Query Match	5.5%	Score 214.6;	DB 19;	Length 330;
Best Local Similarity	81.5%	Pred. No. 2.7e-48;		
Matches 274; Conservative	0;	Mismatches 55;	Indels 7;	Gaps 2;

RESULT 15
US-10-437-963-75572/c

APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Boukharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 FILE REFERENCE: 38-21(53221)B
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14
 NUMBER OF SEQ ID NOS: 204966
 SEQ ID NO 51459
 LENGTH: 330
 TYPE: DNA
 ORGANISM: *Oryza sativa*
 FEATURE:
 NAME/KEY: unsure
 LOCATION: (1)..(330)
 OTHER INFORMATION: unsure at all n locations
 FEATURE:
 OTHER INFORMATION: Clone ID: PAT_MRT4530_53849C.1
 S-10-437-963-51459
 Query Match 5.5%; Score 214.6; DB 19; Length 330;
 Best Local Similarity 81.5%; Pred. No. 2,76-48;
 Matches 274; Conservative 0; Mismatches 55; Indels 7; Gaps 2;
 Y 1071 CCCTTCATCAAGACACATGAGAGAAAGCTCAGATCAAGCCGGGAGCCATCCGATTC 1130
 B 1 CCCTTCATGAAAGCCCCCATGAGAGAAAGCTCATCAATGCCAGAGAC-----ATCATTC 54
 Y 1131 TTCACATAGCAGAGGCGCTCAACAATGATGCGCGCTCCTGTTGTCCTTCATGATC 1190
 B 55 TTCCCATGACAGGAATCCACAGCTCATAGCTATCTTCTTGTGTCCTTCATGATC 114
 Y 1191 CTGATCCAGAGGTGAGACCTTGAGAGACAGAAAGCCCGAGATCATGCGCATCGGT 1250
 B 115 TTGTGTCACAAGTGAAGCTGAGAGAACAGAAAGGCCAAGATCATGGCCATCATCGGC 174
 Y 1251 GCACCGGTGAGAGACTGAGAACTACACCGGATGACACATGCGCTTGTGGGTACTG 1310
 B 175 GCACAGTGAAGCAACTGAAGAACTACACAGATGATGATCTGCTTGTGAATCTTG 234
 Y 1311 TCACGACACAGACAGTGAAGCGTGCATGCGCTTCACTTCACTACCTAC-ATCGCTGA 1369
 B 235 TCGAAGGACAGAGCGGTGACCGGTGCATGCTTTCACCTCTTCACTACATGATGCGA 294
 Y 1370 CCGGATGATGTGAGCATGTCTCTCAAGACTAATT 1405
 B 295 CCGGATGAAAGTGCAGCATGTCTGAAAGGCCAATTT 330
 RESULT 15
 S-10-437-963-75572/C
 Sequence 75572, Application US/10437963
 Publication No. US20040123343A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Boukharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 FILE REFERENCE: 38-21(53221)B
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14

Query Match	4.6%	Score 181;	DB 19;	Length 444;
Best Local Similarity	86.9%	Pred. No. 6.5e-39;		
Matches 199; Conservative	0;	Mismatches 30;	Indels 0;	Gaps 0;

Search completed: September 24, 2005, 19:09:27
Job time : 2375 secs

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OM nucleic - nucleic search, using sw model

Run on: September 24, 2005, 09:52:15 ; Search time 602 Seconds
(without alignments)
10592.310 Million cell updates/sec

Title: US-10-021-657-7

Perfect score: 3897
Sequence: 1 gattcccaagcagcgccctt.....gtctagtaaacgacgattcc 3897

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	119.6	3.1	1626	3 US-09-158-767-14	Sequence 14, App1
2	119.6	3.1	1626	4 US-09-713-794-14	Sequence 14, App1
3	119.6	3.1	2181	3 US-09-158-767-10	Sequence 10, App1
4	119.6	3.1	2181	4 US-09-713-794-10	Sequence 10, App1
5	65.4	1.7	77536	4 US-09-410-551B-1	Sequence 1, App1
6	65.4	1.7	77536	4 US-09-940-316B-1	Sequence 1, App1
7	62.8	1.6	1078	3 US-09-452-239-41	Sequence 41, App1
8	60	1.5	1822	4 US-09-302-540-8986	Sequence 8986, App
9	60	1.5	2943	4 US-09-302-540-3929	Sequence 3929, App
10	60	1.5	9125	4 US-09-302-540-959	Sequence 959, App
11	60	1.5	21285	4 US-09-302-540-1194	Sequence 1194, App
12	59.8	1.5	1926	3 US-09-249-585A-4	Sequence 4, App1
13	59.8	1.5	1931	2 US-09-130-114-2	Sequence 2, App1
14	58.6	1.5	3957	4 US-10-237-551-193	Sequence 193, App
15	58.6	1.5	154746	4 US-09-827-688-8	Sequence 8, App1
16	58.6	1.5	154746	4 US-09-827-688-8	Sequence 8, App1
17	58.2	1.5	49377	1 US-08-764-233A-1	Sequence 1, App1
18	58	1.5	330	3 US-09-197-649-7	Sequence 7, App1
19	57.6	1.5	528	4 US-09-302-540-7053	Sequence 7053, App
20	57.6	1.5	4835	4 US-09-302-540-627	Sequence 627, App
21	57.4	1.5	819	4 US-09-266-965-98	Sequence 98, App
22	57.4	1.5	1018	3 US-09-452-239-35	Sequence 35, App1
23	57.4	1.5	3765	4 US-09-266-965-9	Sequence 9, App1
24	57.4	1.5	4826	4 US-09-772-304A-1	Sequence 1, App1
25	57.4	1.5	53500	4 US-09-266-965-76	Sequence 76, App1
26	57.2	1.5	3794	4 US-09-192-434-1	Sequence 1, App1
27	56.4	1.4	3382	2 US-08-682-847-1	Sequence 1, App1

28	56	1.4	900	5 PCT-US95-04801-3	Sequence 3, App1
29	56	1.4	2358	4 US-09-902-540-2632	Sequence 2632, App
30	56	1.4	17173	4 US-09-902-540-1122	Sequence 1122, App
31	55.4	1.4	894	4 US-09-902-540-7513	Sequence 7513, App
32	55.4	1.4	4845	4 US-09-902-540-730	Sequence 730, App
33	55.2	1.4	2799	3 US-09-232-279-1	Sequence 1, App1
34	55.2	1.4	2799	4 US-10-085-519-1	Sequence 1, App1
35	55.2	1.4	23673	3 US-09-773-816-1	Sequence 1, App1
36	55	1.4	2721	6 5215881-2	Patent No. 5215881
37	55	1.4	2721	6 5215881-2	Patent No. 5215881
38	55	1.4	8438	1 US-07-945-283-1	Sequence 1, App1
39	55	1.4	12173	4 US-09-902-540-1022	Sequence 1022, App
40	55	1.4	44377	2 US-08-804-127C-7	Sequence 7, App1
41	55	1.4	44377	2 US-08-804-127C-7	Sequence 7, App1
42	54.6	1.4	1110	3 US-09-342-143-1	Sequence 1, App1
43	54.6	1.4	1110	3 US-09-342-143-1	Sequence 1, App1
44	54.4	1.4	1361	4 US-09-614-912-37	Sequence 37, App1
45	54.4	1.4	1623	4 US-09-902-540-4832	Sequence 4832, App

ALIGNMENTS

RESULT 1
US-09-158-767-14

; Sequence 14, Application US/09158767A

; Patent No. 6180363

; GENERAL INFORMATION:

; APPLICANT: Batard, Yannick

; APPLICANT: Durst, Francis

; APPLICANT: Schalk, Michel

; APPLICANT: Merck-Reichardt, Daniele

; TITLE OF INVENTION: RECODING OF DNA SEQUENCES PERMITTING

; FILE REFERENCE: A32000

; CURRENT APPLICATION NUMBER: US/09/158,767A

; EARLIER FILING DATE: 1998-09-23

; EARLIER APPLICATION NUMBER: FR 97-12094

; NUMBER OF SEQ ID NOS: 20

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 14

; LENGTH: 1626

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Altered sequences

US-09-158-767-14

Query Match 3.1%; Score 119.6; DB 3; Length 1626;
Best Local Similarity 59.8%; Pred. No. 2.9e-20;

Matches 219; Conservative 0; Mismatches 144; Indels 3; Gaps 1;

QY	2691	CGCGAGAGCCCAAGGGATCTCTGAGAGCAGCGTCCGAGCGGAGCAAGGTGAG	2750
DB	1149	CCCCAGAGCTCCAGACAGTGTCTCGGACGACCTACCTCCCGACCGACCTTGTC	1208
QY	2751	GGCGCGGGATGTGACGTGACGTGACGTGACGTGACGTGACGTGACGTGACGTG	2810
DB	1209	GGCGCGGGATGTGACGTGACGTGACGTGACGTGACGTGACGTGACGTGACGTG	1268
QY	2811	CCCCAGCGGGGAGGATCTCGGCGGAGCGGTGATCAACAGAGTGGCG--GTTCCG	2867
DB	1269	GGAGAGCTCTCGAGTCTCGGCGGAGCGGTGATCAACAGAGTGGCG--GTTCCG	1328
QY	2868	CAACGCGTCCGCTTCAAGTTCAGCGCGTTCAGCGCGGCGGAGATCTGCTGGGCA	2927
DB	1329	CGAGCAGCAGCTGTACAGTGTGCGCTTCAACCGCGGCGGAGATCTGCTGGGCA	1388
QY	2928	GGAGCTCGCGGATCTGCAAGATGAGCGCGTGCATCTCTTGGCTTACAGCTT	2987
DB	1389	GGAGCTCGCGGATCTGCAAGATGAGCGCGTGCATCTCTTGGCTTACAGCTT	1448

Oy	2988	CCGGCTGTGTGAGGGGGACACCGGTCACATACCGCATATATGACATTCCTCTCCATAGAGCA	3047
Db	1449	GACCTGCGCCGCGGGCCACCGCGTGAACAGAAATATCTCCTCACGCTCTTCATATGAGG	1508
Oy	3048	CGGCGCT	3053
Db	1509	CGGCGCT	1514

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RESULT 2
US-09-713-794-14
; Sequence 14, Application US/09713794
; Patent No. 6787337
; GENERAL INFORMATION:
; APPLICANT: Batard, Yannick
; APPLICANT: Durst, Francis
; APPLICANT: Schalk, Michel
; APPLICANT: Werck-Reichardt, Daniele
; TITLE OF INVENTION: RECORDING OF DNA SEQUENCES PERMITTING
; FILE REFERENCE: A32000
; CURRENT APPLICATION NUMBER: US/09/713,794
; CURRENT FILING DATE: 2000-11-15
; PRIOR APPLICATION NUMBER: 09/158,767
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: FR 97-12094
; PRIOR FILING DATE: 1997-09-24
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 1626
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION:
; US-09-713-794-14

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Query Match	Similarity	3.1%	Score 119.6	DB 4	Length 1626
Best Local	Similarity	59.8%	Pred. No. 2-20		
Matches	219	Conservative	0	Mismatches 144	Indels 3
				Gaps	1
QY	2691	CGCGCAGGACCCCAAAGGGAATCTTGAGAGACGACGTCTGCGCGAGCGGAGCGAAGGTGAG	2750		
Db	1149	CCCCGAGGACTCCAAAGCAGCTGTGTGCGGAGACGACTACCTCCCGACGCGACCTTGTGTCC	1208		
QY	2751	GGCGCGCGCGGATGTGAGAGGTACGTGCTCTTCCATGTGGGGGGGATGTGAGGTACCACTGGGG	2810		
Db	1209	GGCGCGGCTGTCTGGGTCACTACTTCCATATACTCTGGCGGGGGCGCATGAAGGGGGTGTGGGG	1268		
QY	2811	CCCCGACGCGGCGGAGCTTCCGCGCGGAGCGGTGTGATCAACAGAGATGGCGC---GTTCCG	2867		
Db	1269	GGAGGACTGTCCGTCCGAGTTCCGCGCGGAGCGATGTGTGTGTGGCCGACCGGACACCAAGTTGCA	1328		
QY	2868	CAACGCGGTGCGCGGTTCATCAAGTTCAACGCGCTTCAAGCGGGGCGCGAGAGATCTGCTTGGGCAA	2927		
Db	1329	GCAGCAGCACTGTACCAAGTTCTGTGTGCGCTTCAACGCCCGGGCGCGAGGGTGTCTCTGGGCAA	1388		
QY	2928	GGACTCGGCGGTACCTGACGATGAGATGGCGCTGGCCATTCCTTTGGGCTTCTACAGCTT	2987		
Db	1389	GGACTTACCTTACCTGTACAGATGAGAACATATGCGCGGAGCGTGTCTTCCGCGACCGGCTCT	1448		
QY	2988	CGGCGTCTGTGAGGGGCAACCGGCTGACAGTACCGCATGTATGACATCTCTTCATATGGCGCA	3047		
Db	1449	GACGTGGCGCGGGGCGACCGGCTGTGAGACAGAAAGATGTGTCTTCACTGAAGGG	1508		
QY	3048	CGGCGCT 3053			
Db	1509	CGGGCT 1514			

```

1 Patent No 6180363
2 GENERAL INFORMATION:
3 APPLICANT: Batard, Yannick
4 APPLICANT: Dirst, Francis
5 APPLICANT: Schalk, Michel
6 APPLICANT: Werck-Reichardt, Daniele
7 TITLE OF INVENTION: RECORDING OF DNA SEQUENCES PERMITTING
8 TITLE OF INVENTION: EXPRESSION IN YEAST AND OBTAINED TRANSFORMED YEAST
9 FILE REFERENCE: A32000
10 CURRENT APPLICATION NUMBER: US/09/158,767A
11 CURRENT FILING DATE: 1998-09-23
12 EARLIER APPLICATION NUMBER: FR 97-12094
13 EARLIER FILING DATE: 1997-09-24
14 NUMBER OF SEQ ID NOS: 20
15 SOFTWARE: PaatsSeq for Windows Version 3.0
16 SEQ ID NO 10
17 LENGTH: 2181
18 TYPE: DNA
19 ORGANISM: Triticum aestivum
20 US-09-158-767-10

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Query Match	Best Local Similarity	3.14; Score 119.6; DB 3; Length 2181;
Matches 219; Conservative	59.8%; Pred. No. 3.5e-20;	0; Mismatches 144; Indels 3; Gaps 1,1;
Qy 2691	CGCGCAGAGACCCCAAGGGGATCTCTGAGAGACGACGTGCTGCGACGGGACGAAAGTGA	2750
Db 1260	CCCCGAGGACTCCAAAGCACGTCGTCTGGGAGACGACTACCTCCCGACGGCACCTTCGTGCC	1319
Qy 2751	GGCCGGCGGGATGGTGAAGTACGTGCGCCCTACTCGATGGGCGGATGGAAGTCAACTGGGG	2810
Db 1320	GGCCGGGTGCTGGGTACCTACCTCATATATCTCGCGGGGGGCAATGAAGGGGGTGTGGGG	1379
Qy 2811	CCCCGACGGCGAGCTTCCGCGCGGAGCGGTGATCAACAGAGATGGCGC---GTTCCG	2867
Db 1380	GGAGAGCTGCTCGAGTCTTCGGGCGGGAGGACATGGCTGTGGCCGACGGCACCAAGTTGCA	14339
Qy 2868	CAACGCGCTCGCCGTTCAAAGTTCAACGACGCGTTCCAGGCGGGGCGAGAGATCTGCTGGGCAA	2927
Db 1440	GCACACAGACTCGTACAAAGTTCTGGGGGTTCAACGCGGGGCGAGGGGTGTCCTGGGCAA	1499
Qy 2928	GGACTCGGCGTACCTGAGAGATGAGATGGGCGTGGCCATCCTCTTGGGCTTCTACAGCTT	2987
Db 1500	GGACTTACCTTACTCTGCAATGAAGAACATGCGCGGAGCGTGTCTCTCGGCAACCGCTT	1558
Qy 2988	CCGGCTCTGAGGGGGCAACCGGCTGCAAGTACCGCATGACATCTCTTCATATGGCGCA	3047
Db 1560	GACCGTGGCGCGGGGCAACCGCGGTGAGAGAGAAATGTCGTCAACGCTTTCATGAAAGG	1619
Qy 3048	CGGCGCT 3053	
Db 1620	CGGCGCT 1625	

Db	1329	GCACACAGACTCGTACAAAGTTCGTGGCGTTCAACGCCGGGCGGAGGGGTGCTCTGGGCAA	1388
Qy	2328	GGACTCGGCGGTAACCTGCAGATGAAGATGGCGCTCGCATTCCTCTTGGCCTTTCACACTT	2987
Db	1389	GGACCTTACCTTACCTGCAGATGAAGAACATGCGCGGGGCGTGCTGCTCCGGCACCGCCT	1448
Qy	2388	CCGGCTGTGTGAGGGGCACCCCGCTGCAGTACCGCATGTATGACCATTCCTCTCCATGGCGCA	3047
Db	1449	GACGCTGGCGCGGGCCACCGCGGTGGAGCACAAGATGTGCTCAAGCTCTTCATGAAGGG	1508
Qy	3048	CGGCGCT 3053	
Db	1509	CGGCGCT 1514	

RESULT 3
US-09-158-767-10
: Sequence 10, Application US/09158767A

RESULT 4
: US-09-713-794-10
: Sequence 10, Application US/09713794
: Patent No. 6787337
: GENERAL INFORMATION:
: APPLICANT: Bataird, Yannick
: APPLICANT: Durst, Francis
: APPLICANT: Schalk, Michel
: APPLICANT: Werck-Reichardt, Daniele
: TITLE OF INVENTION: RECODING OF DNA SEQUENCES PERMITTING
: TITLE OF INVENTION: EXPRESSION IN YEAST AND OBTAINED TRANSFORMED YEAST
: FILE REFERENCE: A32000
: CURRENT APPLICATION NUMBER: US/09/713, 794
: CURRENT FILING DATE: 2000-11-15
: PRIOR APPLICATION NUMBER: 09/158, 767
: PRIOR FILING DATE: 1998-09-23
: PRIOR APPLICATION NUMBER: FR 97-12094
: PRIOR FILING DATE: 1997-09-24
: NUMBER OF SEQ ID NOS: 20

SOFTWARE: FaetsEQ for Windows Version 3.0
SEQ ID NO 10
LENGTH: 2181
TYPE: DNA
ORGANISM: Trilicium aestivum
US-09-713-794-10

Query Match 3.1%; Score 119.6; DB 4; Length 2181;
Best Local Similarity 59.8%; Pred. No. 3.5e-20;
Matches 219; Conservative 0; Mismatches 144; Indels 3; Gaps 1;

QY 2691 CCGCGAGACCCCAAGGGGATCTCTGAGAGACGAGCTGCTCCGAGCGGACGAAAGTGA 2750
DB CCGCGAGACTCCAGAGACGCTGTCGAGAGACTACTCCCGAGCGGACCTTCTGCGC 1319
QY 2751 GCGCGCGGAGATGTGACGTAAGTCTCTGATGAGGCGGATGAGTGAATCTGAGG 2810
DB 1320 GCGCGGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1379
QY 2811 CCGCGAGCGGCGAGCTTCCGCGCGGAGCGGATGAGTGAAGGATGCGC---GTTCCG 2867
DB 1380 GAGAGACTGCTGAGTTCGCGCGGAGAGAGCTGCTGCGCGAGCGGACGAAAGTTCGA 1439
QY 2868 CAAAGCGTCCGCTTCAAGTTCAGCGCTTCAAGCGGCGGCGGAGATCTGCTGCGCAA 2927
DB 1440 GAGAGAGACTGCTGAGTTCGAGGCTTCAAGCGGCGGCGGAGATCTGCTGCGCAA 1499
QY 2928 GAGCTGCGGCTTCAAGTTCAGAGATGAGCGGCTGCGGCTTCTGCGCTTCAAGCTT 2987
DB 1500 GAGCTGCGGCTTCAAGTTCAGAGATGAGCGGCTGCGGCTTCTGCGCTTCAAGCTT 1559
QY 2988 CCGCGCTGCTGAGAGCGGCGGAGCTGAGTACCGAGTACGATCTCTGCTGAGCGCA 3047
DB 1560 GACCGTGGCGCGCGGCGGCGGCGGAGAGAGATGCTGCTGCTGCTGCTGCTGCTG 1619
QY 3048 CCGGCT 3053
DB 1620 CCGGCT 1625

RESULT 5
US-09-410-551B-1
Sequence 1, Application US/09410551B
Patent No. 6503737
GENERAL INFORMATION:
APPLICANT: KOSAN BIOSCIENCES, Inc.
APPLICANT: REEVES, CHRISTOPHER
APPLICANT: CHU, DANIEL
APPLICANT: KHOSLA, CHAITAN
APPLICANT: SANTI, DANIEL
TITLE OF INVENTION: POLYKETIDE SYNTHASE ENZYMES AND RECOMBINANT DNA
FILE REFERENCE: 30062-20026.00
CURRENT APPLICATION NUMBER: US/09/410,551B
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: US 60/139,650
PRIOR FILING DATE: 1999-06-17
PRIOR APPLICATION NUMBER: US 60/123,810
PRIOR FILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 60/102,748
PRIOR FILING DATE: 1998-10-02
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FaetsEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 77536
TYPE: DNA
ORGANISM: Streptomyces hygroscopicus
FEATURES:
NAME/KEY: CDS
LOCATION: (52275) ... (71465)
US-09-410-551B-1

Query Match 1.7%; Score 65.4; DB 4; Length 77536;
Best Local Similarity 51.9%; Pred. No. 3e-05;
Matches 175; Conservative 0; Mismatches 156; Indels 6; Gaps 1;

QY 2232 ATCGAGCTAGGCGAGCGCGGCGGAGCGAGCGGCTTCTGAGGAGCGAAGAGCTCCG 2291
DB 56223 ACCGGGCGCGGCTGAGACGACTGCTCCCGGAGACCGGCTGTTCGCTGACCGCGGCG 56282
QY 2292 GACGTGTGTCTCACTTCTGATGCGCGGCGGAGACGAGCGGAGCGGCTGCG 2351
DB 56283 GGCATGCGCGCGGCGGCGGCTGACCGGCGGCTGCGGCGGAGTCCCGGAGCGGCTGCG 56342
QY 2352 TTGACGCAATGCGGCTGCTGCGGCGGAGCGGAGCGGAGTGTGCGGCGGCGGAGCTGTC 2411
DB 56343 AGCTTACCAACGCGGCGGCTGCTGCGGAGTGTGCGGAGCGGAGTGTGCGGAGCTGTC 56402
QY 2412 GCGTTCGAGCGGAGCGGCGGCGGAGCGGAGCGGAGTGTGCGGCTGCGGCGGCGGCTG 2471
DB 56403 GACCTGCGGACACTGCGGCGGCGGAGGAGTGTGCGGAGCGGAGTGTGCGGAGCGGCTG 56462
QY 2472 GACGCGAGACGAGCGGCTTCCGCGGCGGCGGAGTGTGCGGAGCGGAGTGTGCGGAG 2531
DB 56463 GGCATGCGGCGGCGGCGGAGTGTGCGGCGGAGTGTGCGGAGCGGAGTGTGCGGAG 56516
QY 2532 GACGCGTGTGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2568
DB 56517 GCGAGTACCGGCGGAGCGGAGCGGCTGCTGCGGCGGCGG 56553

RESULT 6
US-09-940-316B-1
Sequence 1, Application US/0940316B
Patent No. 6759536
GENERAL INFORMATION:
APPLICANT: KOSAN BIOSCIENCES, Inc.
APPLICANT: REEVES, CHRISTOPHER
APPLICANT: CHU, DANIEL
APPLICANT: KHOSLA, CHAITAN
APPLICANT: SANTI, DANIEL
TITLE OF INVENTION: POLYKETIDES ENCODING THE EMDA GENE OF THE PK-520 POLYKETIDE SYNT
FILE REFERENCE: 30062-20026.11
CURRENT APPLICATION NUMBER: US/09/940,316B
PRIOR FILING DATE: 2001-08-27
PRIOR APPLICATION NUMBER: 09/410,551
PRIOR FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: US 60/139,650
PRIOR FILING DATE: 1999-06-17
PRIOR APPLICATION NUMBER: US 60/123,810
PRIOR FILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 60/102,748
PRIOR FILING DATE: 1998-10-02
NUMBER OF SEQ ID NOS: 72
SOFTWARE: FaetsEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 77536
TYPE: DNA
ORGANISM: Streptomyces hygroscopicus
FEATURES:
NAME/KEY: CDS
LOCATION: (52275) ... (71465)
US-09-940-316B-1

Query Match 1.7%; Score 65.4; DB 4; Length 77536;
Best Local Similarity 51.9%; Pred. No. 3e-05;
Matches 175; Conservative 0; Mismatches 156; Indels 6; Gaps 1;

QY 2232 ATCGAGCTAGGCGAGCGGCGGAGCGGCGGCTTCTGAGGAGCGAAGAGCTCCG 2291
DB 56223 ACCGGGCGCGGCTGAGACGACTGCTCCCGGAGACCGGCTGTTCGCTGACCGCGGCG 56282
QY 2292 GACGTGTGTCTCACTTCTGATGCGCGGCGGAGACGAGCGGAGCGGAGTGTGCGGAG 2351
DB 56283 GGCATGCGCGCGGCGGCGGAGTGTGCGGCGGAGTGTGCGGAGCGGAGTGTGCGGAG 56342
QY 2412 GCGTTCGAGCGGAGCGGCGGCGGAGCGGAGCGGAGTGTGCGGCTGCGGCGGCGGCTG 2471
DB 56403 GACCTGCGGACACTGCGGCGGCGGAGGAGTGTGCGGAGCGGAGTGTGCGGAGCGGCTG 56462
QY 2472 GACGCGAGACGAGCGGCTTCCGCGGCGGCGGAGTGTGCGGAGCGGAGTGTGCGGAG 2531
DB 56463 GGCATGCGGCGGCGGCGGAGTGTGCGGCGGAGTGTGCGGAGCGGAGTGTGCGGAG 56516
QY 2532 GACGCGTGTGAGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2568
DB 56517 GCGAGTACCGGCGGAGCGGAGCGGCTGCTGCGGCGGCGG 56553

```
Db      56283 GGCATGCGCCGACGCGCGCTGCACCGACCGGCGCTGCGTCCGATCCCGACGCGCTGG 56342
Qy      2352 TTCACGCAATAGTGGCCATGTTCACCCCGGACGTGGCCGGAAGTGGCGCGGACGTGTGC 2411
Db      56343 AGCTTACCAACGCGCGGCGTCCGCTCCGATCGTGTTCGACCGCGGTGTACCGGCTGTGTTC 56402
Qy      2412 GCGTTGAGAGCGGAGCGCGCGCGGAGAGGCGGTGCGCTGTGCGCTTGGCGCGCGCT 2471
Db      56403 GACCTTCGACACTGCGCGCGCGCGGAGAGGTCTGTGTCAACGCGCGCACCGCGCGTGTTC 56462
Qy      2472 GACGCGGACGACAAAGCGTTCGCGCGCGCGGTGGCGCAAGTTGCGGCGCTTCACTTAC 2531
Db      56463 GGCATGCGCGCGGACAGATCGCGCGCGCACCTGG-----GCGCGAGCTTTCAGCGCACG 56516
Qy      2532 GACAGCTTCGCGGACAGTGTGTCTTACCTCCACGCGCTGG 2568
Db      56517 GCCAGTACCGGCAAGACAGACTGTCTGCGCGCGCGCG 56553
```

```
RESULT 7
US-09-452-239-41
/ Sequence 41, Application US/09452239
/ Patent No. 6465229
/ GENERAL INFORMATION:
/ APPLICANT: Rafaleki, Antoni J.
/ APPLICANT: Fader, Gary M.
/ APPLICANT: Cahoon, Rebecca E.
/ TITLE OF INVENTION: Plant Caffeoyl-CoA O-Methyltransferase
/ FILE REFERENCE: B1284 US NA
/ CURRENT APPLICATION NUMBER: US/09/452,239
/ EARLIER FILING DATE: 1999-12-01
/ EARLIER APPLICATION NUMBER: 60/110,594
/ EARLIER FILING DATE: 1998-December-02
/ NUMBER OF SEQ ID NOS: 50
/ SOFTWARE: Microsoft Office 97
/ SEQ ID NO 41
/ LENGTH: 1078
/ TYPE: DNA
/ ORGANISM: Trifolium aestivum
US-09-452-239-41
```

```
Query Match      1.6%; Score 62.8; DB 3; Length 1078;
Best Local Similarity 48.1%; Pred. No. 1.1e-05;
Matches 178; Conservative 0; Mismatches 192; Indels 0; Gaps 0;

Qy      2252 CGACGACGCGCGCGCTTGGGGGACGACAAAGCTTCGCGGACGTGTGCTCAACTTCTGT 2311
Db      423 CGGACCGCGCTGCGCATCCCGACGACGACCATTTGGCCATGACATCAACCGCA 482
Qy      2312 GATCGCGGCGGACGACGACGCGGACGACGTGTGTGTGTTCACGCAATGGCCATGTTC 2371
Db      483 GAACCTACGAGCTGGGCGCTGCTGTGATGAGAGGCGCGGTGGCGCAAGATCACTT 542
Qy      2372 CCAACCGGACGTGGCGGAGAGCTGCGCGGAGCTGTGCGCTTTCGAGGCGGAGCGCG 2431
Db      543 CGCGAGGCGCGCGCGCTGCGGTGCTGAGCGGCTGTGAGAGACGAGGCAACACG 602
Qy      2432 GCGCGAGAGGCGGTGCGCTGCTGTGCTTGGCGCGCGCGCTGAGACCGGACGACGCTT 2491
Db      603 CACTTTCGACTTGTGTCTTGTGAGCGCGGACGACAACTTCACTCAACGACGAGG 662
Qy      2492 CGCGCGCGCGTGGCGGACGTTTCGCGGCGCTTCACTTACGACGCTTCGCGCAAGCTGTG 2551
Db      663 CTCGAGAGAGCTGTGACAGCTCGCGCGCTTCTTGGCTACGACAAACGCTGTGAAACG 722
Qy      2552 TTAACCTTCACGCGCTGTGTCACCGAGACGCTTCGCGCTGTACCCGCGCTTCAGGTGAG 2611
Db      723 CTCGCGTGTGTCTCCCGCGACGCGCCCAATGCGGACGATACATCGCTACGCGGACTT 782
Qy      2612 CGGCGCGGAC 2621
Db      783 CGTCTCTGAC 792
```

```
RESULT 8
US-09-902-540-8986
/ Sequence 8986, Application US/09902540
/ Patent No. 6833447
/ GENERAL INFORMATION:
/ APPLICANT: Goldman, Barry S.
/ APPLICANT: Hinkle, Gregory J.
/ APPLICANT: Slater, Steven C.
/ APPLICANT: Wiegand, Roger C.
/ TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
/ FILE REFERENCE: 38-10(15849)B
/ CURRENT APPLICATION NUMBER: US/09/902,540
/ PRIOR FILING DATE: 2001-07-10
/ PRIOR APPLICATION NUMBER: 60/217,883
/ NUMBER OF SEQ ID NOS: 16825
/ SEQ ID NO 8986
/ LENGTH: 1822
/ TYPE: DNA
/ ORGANISM: Myxococcus xanthus
US-09-902-540-8986
```

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Query Match      1.5%; Score 60; DB 4; Length 1822;
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Best Local Similarity 47.2%; Pred. No. 7.7e-05;
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Matches 183; Conservative 0; Mismatches 205; Indels 0; Gaps 0;
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Qy      2235 GAGCTAGCGGAGCCCGCGGACGACCGCGCGCTTTCGGGAGCAGCAAGCTCCGCGAC 2294
Db      1112 GAGGCGCGGACGCGCGCGCTGGCGCTGTGAGCTTTCGAGCGCTTTCGAGGACCATGGA 1171
Qy      2295 GTGTGTCTCACTTGTGTATGCGCGGCGGACGACGACGACGCTGTGTTC 2354
Db      1172 GAGGCGCTCAACGATGTGTGCGGACGACGATGACGACGACGACGATGATTTTC 1231
Qy      2355 AGCACAATGCGCATGTCCACCGGACGCTGCGGAGAAAGCTGCGCGAGCTGTGCGG 2414
Db      1232 CCTCAAGGAGATGTACGCGCGGACGCTTGCGCCACCTTCATGCGGACCGCACG 1291
Qy      2415 TTGAGGCGGAGCGCGCGCGGACGAGAGGCGCTGTGCGCTGTGCGCGCGCGCTGAC 2474
Db      1292 CTGAGCGCGCTCTACGCTGTGCGCGGACGAGTGTGCGCGCGCGCTGTACCTGAC 1351
Qy      2475 GCGGACGACGAGCGCTTTCGCGCGCGCGGCGGAGTTCGCGGCGCTTCACTTACGAC 2534
Db      1352 ACCGCGGCGGAGGCTTTCGACGACGACGACGACGACGACGACGACGACGACGACG 1411
Qy      2535 AGCTTCGCGACGCTGTCTTACCTTCACGCGCTGTGACCGGACGCTGCTGTACCC 2594
Db      1412 GCGGAGGCTGACTGTGTGAAAGCCGCGTGCCTGTGCGCGCGGACGCTGTGACCC 1471
Qy      2595 GCGTTCCTCAGATGAGCGCGCGGACA 2622
Db      1472 CGCGAGCTGGCGGTATTAAGCTTACA 1499
```

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RESULT 9
```

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US-09-902-540-3929
```

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/ Sequence 3929, Application US/09902540
```

```
/ Patent No. 6833447
```

```
/ GENERAL INFORMATION:
```

```
/ APPLICANT: Goldman, Barry S.
```

```
/ APPLICANT: Hinkle, Gregory J.
```

```
/ APPLICANT: Slater, Steven C.
```

```
/ APPLICANT: Wiegand, Roger C.
```

```
/ TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
```

```
/ FILE REFERENCE: 38-10(15849)B
```

```
/ CURRENT APPLICATION NUMBER: US/09/902,540
```

```
/ PRIOR FILING DATE: 2001-07-10
```

```
/ PRIOR APPLICATION NUMBER: 60/217,883
```

```
/ NUMBER OF SEQ ID NOS: 16825
```


SEQ ID NO 3929
LENGTH: 2943
TYPE: DNA
ORGANISM: Myxococcus xanthus
US-09-902-540-3929

Query Match 1.5%; Score 60; DB 4; Length 2943;
Best Local Similarity 43.3%; Pred. No. 0.0001;
Matches 330; Conservative 0; Mismatches 430; Indels 2; Gaps 1;

2244 GAGCGCGGCGACGACGCGCGCGCTTCGGGAGCAAGAGCCTCCGAGCGTGTCTC 2303
|||
1597 GAGGTGGCGCGCGCGCGCGCGCACTTCAGTTCGCGGACCACTCGGTGCACTAGACTG 1656
|||
2304 AACTTGATGATGCGCGCGCGCGGACGACGCGCGGACGCTTCGTGTGTTTACGACATG 2263
|||
1657 CTTGAGAGCGCGCGCGCGCGCGGATTCGCGCGGCTGAGCGGATCGGCGGACGAG 1716
|||
2364 GCCATGTCCACCGCGCGCGCGCGGAGAGAGCTCGCGCGGAGCTGTGCGGCTTCAGAGCG 2423
|||
1717 CATCGGTGAGATTCAGCTTCCTGACCGCGCGCGGACGCTGGCTCCGACGTGTATG 1776
|||
2424 GAGCGCGCGCGCGGAGAGGCGGTTCGCGCTTCGCGCGCGCGCTGACGCGGACGAC 2483
|||
1777 CTGCTGGCGGACGCGGTGGCGGTCTTCGCGGAGACGCGTGGCGGCTGAGCGGCTG 1836
|||
2484 AAGCGCTTCGCGCGCGCGCGCGGAGCTTCGCGCGGCTTCCTACCTACGACGCTCGC 2543
|||
1837 GAGAGGTGAGGCGCGCGCGCGCGGCTTCGCGCGGCTGAGCGCGCGCGCGGCGGCT 1896
|||
2544 AAGCTGTCTACCTTCACGCGCTTCGCGCGGAGCGCTTCGCGCGGCTTCGCGCGGCT 2603
|||
1897 TACGCGGAGAGGCTGAGGCGCGCGCGGAGGCGCGCGCGCGCGCGCGCGCGCGCT 1956
|||
2604 CAGGTAGCGCGCGCGGACAC - GCGACTTCGCGCTTCGAGACGACGATGAGTGA 2661
|||
1957 GACCGCGCTCTGAGCGTGCAGCTTCGACCGCGCGGCTGAGCGCGCTGAGAGCGC 2016
|||
2662 CCGATGATGACATGACATGACCTTCGCGCGCGCGGACCGCGGAGATCTGAGAGAC 2121
|||
2017 GCCGAGAGGCGATGAGGCGATCGAGCGGAGAGAGAGAGAGCGCGGAGAGCG 2076
|||
2722 GACGTCTGCGCGGACGAGAGAGAGTGAAGGCGCGCGGAGTGTGACGTACGTCCTAC 2781
|||
2077 TCCGCGGTGAGAGATGAGCTTCGTGGGCGATCGCGCGGACCTTGACGAGCGCTGAGAG 2136
|||
2782 TCGATGAGGCGGATGAGATCACTGCGCGCGCGGACGCTTCGCGCGGAGCGG 2841
|||
2137 ACGGTGACGAGAGCTGGCGCGCGCGGAGGAGATCGGCTGAGACCGAGCGAGTGGAG 2196
|||
2842 TGGATCAAGAGATGCGCGCTTCGCGAGCGCTTCGCGCTTCAGATTACGCGCTTCAG 2901
|||
2197 GCGTTCAGGTTGCGCTTCAGTTCGCGCGCGCTGAGCGGCTGAGCGGAGCTGCGGCGATC 2256
|||
2902 GCGCGCGCGGATGCTGCGCGGAGAGCTGCGGCGGATGAGATGAGATGAGGCGGCTG 2261
|||
2257 GACGTATGAGAGAGCGGACGACGCTGCGGACCTTCGCGGCGGACCGCGGAGAGCGG 2316
|||
2962 GCCATCTCTTCGCGCTTCAGACTTCGCGCGCTTCGCGGAGGAGG 3003
|||
2317 GAGGAGTGGAGATTCCTCGCGGACCGCGCTGCTGAG 2358
|||

RESULT 10
US-09-902-540-959/C
Sequence 959, Application US/09902540
Patent No. 6833447

GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 959
LENGTH: 9125
TYPE: DNA
ORGANISM: Myxococcus xanthus
US-09-902-540-959

Query Match 1.5%; Score 60; DB 4; Length 9125;
Best Local Similarity 47.2%; Pred. No. 0.0002;
Matches 183; Conservative 0; Mismatches 205; Indels 0; Gaps 0;

2235 GAGTGAAGCGAGCGCGCGGACGACGCGCGGCTTCGGGAGCAAGAGCCTCCGCGAC 2294
|||
3957 GAGCGCGGAGGCGCGCGCGGCGGAGCGCTTCGAGCGGCTTCGAGCGGCTTCGAGCGG 3898
|||
2295 GTGTCTCACTTCGTATTCGCGCGGCGGACGACGCGGACGCTTCGTGTGTTT 2354
|||
3897 GAGGCGTCAACGATGCTGCGCGGACGATACCGGATGAACGCGGATGATGATTC 3838
|||
2355 AGCGATGCGCATGTCACCGCGGAGCGGCGGAGAGAGCTGCGCGCTTCGCGCGGCGG 2414
|||
3837 CCTCAAGGAGATGATGAGCGGCGGAGCTTCGCGGCGGCGGCGGCGGCGGCGGCGG 3778
|||
2415 TTGAGAGCGGAGCGCGCGGAGAGGCGGCTTCGCGCGGCTTCGCGCGGCGGCGGCGG 2474
|||
3777 CTGAGCGCGGTCTCAACGCTGCGCGGAGAGGAGAGGCGGCGGCGGCGGCGGCGG 3718
|||
2475 GCGGACGACAGCGGCTTCGCGCGGCGGCGGAGGAGGCTTCGCGGCGGCGGCGGCGG 2534
|||
3717 ACCGCGGCGGAGGCTTCGAGAGAGGATGAGCGGCGGCGGCGGCGGCGGCGGCGG 3658
|||
2535 AGCGTGGAGAGGCTTCGAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 2594
|||
3657 GCGGAGGCTGAGCTGAGAGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3598
|||
2595 GCGGCTCTCAAGTGAAGCGCGCGGCGGAC 2622
|||
3597 CCGAGCTGCGGATGATGAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 3570
|||

RESULT 11
US-09-902-540-1194
Sequence 1194, Application US/09902540
Patent No. 6833447

GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902,540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217,883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO 1194
LENGTH: 21295
TYPE: DNA
ORGANISM: Myxococcus xanthus
US-09-902-540-1194

Query Match 1.5%; Score 60; DB 4; Length 21295;
Best Local Similarity 43.3%; Pred. No. 0.00034;
Matches 330; Conservative 0; Mismatches 430; Indels 2; Gaps 1;

2244 GAGCGCGGCGGACGCGCGCGCTTCGGGAGCAAGAGCCTCCGAGCGTGTGCTC 2303
|||

